# ICEBREAKER DESIGN AND CONSTRUCTION

FINAL REPORT

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Library Search for Literature in the Field of Icebreaker Design and Construction.

by

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to

Office of Engineering Naval Engineering Division U.S. Coast Guard Headquarters Washington, D.C.

Contract No. Tcg-16,024 A

April 1968

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# Best Available Copy

# LIST OF CONTENTS

Introduction	1
Extent of Work	1
Results and Documentation	2
Acknowledgement	4
Appendix I - List of Serials Searched	5
Appendix II - List of References as Divided into Subject Categories	7
Appendix III - List of Key Words	9
Appendix IV - Copyright	12
Annendix V - Documentation	23

#### Introduction

The purpose of this Library Search was to collect, review and make documentation of Eastern European (including German) and Russian literature on the subject of icebreaker design and construction. Special reference was given to structural design, propulsion and to materials and processes used in construction, as well as to physical properties of ice, to icebreaking theory and methods and to problems related to the interaction between the icebreakers and ice. Other pertinent areas, including fracture, fatigue and corrosion resistance were also included.

The work was performed from September, 1966, until April, 1968. The sources of information collected were limited to unclassified serials and books available in American libraries. Generally, publications which appeared between the years 1956 and 1966 were included in the search.

This report describes the main features of the work, its extent, sources and results. It also includes technical information on the documentation and on copyright clearance.

#### Extent of Work

The main attention was concentrated on a group of selected periodicals, which was modified in course of the work. Many of the journals were available only in the Library of Congress, which thus

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Library of Brown University was particularly useful, while several other libraries, located in Washington, D.C., New York City, and Boston, have also provided a part of the serials searched.

The periodicals which were searched are listed in Appendix I. With a few exceptions, all issues of the listed journals, as they appeared between 1956 and 1966, were located. In some case., even a part of the year 1967 was included.

Because of the special nature of the subject, only Russian and German literature was found useful. In fact, most references were taken from Russian journals. Where available, English translations were used instead of the original version.

#### Results and Documentation

The total number of articles and books which were included in the search amounts to 518. Those were divided into ten subject categories suggested by the U. S. Coast Guard. In each category, references were numbered in sequence. The resulting identification numbers consisted of five digits, as shown in Appendix II. The list gives also the Field and Group numbers according to the Cosati Subject Category List (DoD-Modified) of October, 1965.

The documentation of each article and book included in the search was done in the following manner:

a) Three photostatic copies were made; two for the U. S.

Coast Guard and one to be included in a separate set submitted to the Defense Documentation Center, Cameron Station, Alexandria, Virginia. In some cases, a fourth copy was made for the contractor. Only title pages and lists of contents were copied in case of books and very long articles.

b) Two separate forms were attached to each copy described in a). The first included bibliographical references and an annotated comment to each article, while the second listed pertinent key words. The key words were proposed by the contractor with regard to the nature of the work. They are listed in Appendix III.

The purpose of the annotated comments and key words was to enable an easy evaluation of the contents, level and nature of individual articles. Where pertinent, translation was either recommended or suggested as optional. When a translation was known to exist, its reference was given.

- c) Two sets of cards for Libsys Computer Program. Those cards included the identification numbers, bibliographical references, comments and key words for each article, as described in b).
- d) One printout of the Libsys Computer Program input. A copy of this printout was included with each shipment of Libsys card input. Another copy is attached in Appendix V.

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e) One set of copies of all articles, with their summaries and key words, was submitted to the Defense Documentation Center, Cameron Station, Alexandria, Virginia, 22314, to incorporate the results obtained in this work into DDC holding.

Copyright clearance was obtained for all material which was originally covered, i.e., for all German articles and for the English translations of Russian journals. Appendix IV on copyright includes copies of letters which were mailed to copyright owners and a copy of the Clause 9-203(d) Rights in Technical Data-Specific Acquisition (May 1964). This Clause was enclosed with each request for copyright clearance. Permissions were obtained from all copyright owners and the respective letters are also enclosed in Appendix IV.

#### Acknowledgement

The author wishes to acknowledge the financial support for this work by the U. S. Coast Guard under contract Tcg 16,024-A.

#### APPENDIX I

#### LIST OF SERIALS SEARCHED

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consecus assertes and experimental and an experimental and a second an

- A) Russian Scientific and Technical Journals
  - 1. Atomnaya Energija (Russian Journal of Atomic Energy)
  - Avtomaticheskaja Svarka (Russian Journal of Automatic Welding)
  - 3. Doklady Akademii Nauk SSSR (Transactions of the Academy of Sciences of USSR)
  - Fizika Metallov i Metallovedenie (Physics of Metals and Material Science)
  - 5. Gidrotekhnicheskoe Stroitel'stvo (Hydrotechnical Engineering)
  - 6. Izvestija Akademii Nauk SSSR Mekhanika (Proceedings of the Academy of Sciences of USSR-Mechanics)
  - 7. Izvestija Akademii Nauk SSSR Energetika i Transport (Energetics and Transport)
  - 8. Izvestija Akademii Nauk SSSR Seriya Metally (Metals)
  - 9. Izvestija Vysshikh Uchebnych Zavedenij (Proceedings of State Universities), Mashinostroenie (Machine Building)
  - 10. Izvestija Sibirskogo Otdelenija AN SSSR, Seriya Tekhnicheskikh Nauk (Proceedings of the Siberian Section of the Academy of Sciences USSR, Technical Sciences Series)
  - 11. Inzhenernyj Zhurnal (Engineering Journal)
  - 12. Mashinovedenie (Mechanical Engineering)
  - 13. Metallovedenie i Termicheskaja Obrabotka Metallov (Material Science and Heat Treatment)
  - 14. Morskoi Flot (Navy)
  - 15. Morskoi Sbornik (Sea Volume)
  - 16. Problemy Arktiki i Antarktiki (Problems of the Arctic and Antarctic)

- 17. Rechnoj Transport (River Transport)
- 18. Sudostroenie (Shipbuilding)

Strik regundans

- 19. Svarochnoe Proizvodstvo (Welding Production)
- 20. Trudy CNII Morskogo Flota (Leningrad). (Transactions of the Central Scientific Research Institute of the Navy).
- 21. Trudy CNII Rechnogo Flota (Leningrad). (Transactions of the Central Scientific Research Institute of the River Fleet).
- 22. Trudy CNII Sudostroitel'noj Proymchlenosti (Leningrad).
  (Transactions of the Central Scientific Research
  Institute of Shipbuilding Industry).
- 23. Trudy Instituta Inzhenerov Vodnogo Transporta (Leningrad). (Transactions of the Institute of Engineers of Water Transportation).
- 24. Trudy Instituta Vodnogo Transporta (Transactions of the Institute of Water Transportation).
- 25. Trudy Korablestrottel'nogo Instituta (Leningrad). (Transactions of the Shipbuilding Institute).
- 26. Uchennye Zapiski Vyshego Arkticheskogo Morskogo Uchilishscha (Leningrad). (Scientific Memoirs of the Arctic and Naval College).
- 27. Vodnyj Transport Referativnyj Zhurnal (Water Transport Journal of Abstracts).
- 28. Zavodskaja Laboratorija (Russian Journal Industrial Laboratory).

#### B) German Technical Journals

- 29. Jahrbuch der Schiffahrt.
- 30. Jahrbuch der Schiffbautechnischen Gesellschaft.
- 31. Schiff und Hafen
- 32. Schiffbautechnik

#### Appendix II

#### LIST OF REFERENCES AS DIVIDED

#### INTO SUBJECT CATEGORIES

STREET TO STREET STREET

Earth Sciences and Oceanography (Cosati 08 10 - Physical Oceanography)

References 08001 - 08007

24 Materials

(Cosati 11 06 - Metallurgy and Metallography 13 08 - Industrial Processes

13 10 - Marine Engineering

20 11 - Solid Mechanics)

References 24001 - 24148

30 Mathematical Sciences

(Cosati 17 - Navigation, Communications Detection and Countermeasures

20 11 - Solid Mechanics)

References 30001 - 30003

Navigation, Communications Detection and Countermeasures (Cosati 17 - Navigation, Communications Detections and Countermeasures)

References 27001 - 37011

45 Mechanical Engineering (Cosati 20 11 - Solid Mechanics)

Reference 45001

55 Naval Architecture (Design)
 (Cosati 13 10 - Marine Engineering)

References 55001 - 55131

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65 Ship Construction (Cosati 13 10 - Marine Engineering)

References 65001 - 65043

75 Ship Propulsion Systems (Cosati 13 10 - Marine Engineering)

References 75001 - 75078

References 80001 - 80069

References 81001 - 81027

# Appendix III

# LIST OF KEY WORDS

Adhesives	Ice characteristics
Arctic research	Ice conditions
Cathodic protection (2)*	Ice conditions forecast
Cavitation	Ice-going ships (2)
Coatings	Icebreaker name (2)
Computers programming (2)	Icebreakers, History
Computers use	Icebreakers, Harbor (2)
Corrosion	Icebreakers, Motion (2)
Corrosion protection (2)	<pre>Icebreakers, Pitching   equipment (2)</pre>
Corrosion resistance (2)	Icebreakers, Polar (2)
Deicing systems (2)	Icebreakers, Sea (2)
	Icebreaking cargo ships (2)
Experimental methods (2)	Icebreaking methods (2)
Failure	Icebreaking theory (2)
Fracture testing (2)	Icebreaking tugs (2)
Fatigue testing (2)	Law
Harbour tugs (2)	Materials, Brittleness (2)
Hull construction (2)	Materials, Gluing (2)
Hull design (2)	Mathematical methods (2)
Hull sheath (2)	Materials selection (2)

<sup>\*(2)</sup> indicates that both forms of a composed key word were simultaneously used, e.g., cathodic protection and protection, cathodic.

(9)

Material specifications (2) Propulsion, Dieselelectric (2) Materials, Shipbuilding (2) - Propulsion, Nuclear (2) Materials testing Propulsion, Steam (2) Measurement equipment (2) Measurement methods (2) Register, Country (2) Residual stresses Mechanical properties Metals gluing (2) Resistance (Fluid Dynamics) Metals joining (2) Resistance, Ice (2) Metals welding (2) Note: Use proper term for "Ships" from Thesaurus Name Class Numerical methous (2) Ship name (2) Ships, Assembly (2) **Paints** Ships, Boats (2) Photoelasticity Ships, Communication Photoplasticity systems (2) **Plastics** Ships, Classification (2) Plastics, Welding (2) Ships, Construction (2) Power plants, Automation (2) Ships, Collision (2) Power plants, Cooling systems (2) Ships, Country (e.g. Icebreakers, Russian. Russian Icebreakers) (2) Power plants, Nuclear (2) Power plants, Performance Ships, Damage (2) tests (2) Ships, Design (2) Power plants, Selection (2) Ships, Engines (2) Propellers Ships, Fenders (2) Porpellers, Blades (2) Ships, Fire protection (2) Propellers, Damage (2) Ships, History (2)

Propellers, Shafts (2)

Ships, Loading (2)	Snow characteristics
Ships, Models (2)	Statistical analysis
Ships, Modernization (2)	Steels, Carbon (2)
Ships, Motion	Steel, Economy (2)
Ships, Navigation (2)	Steels, Heat treated (2)
Ships, Navigation systems (2)	Steels, High strength (2)
Ships, Operation (2)	Steels, Low alloy (2)
Ships, Performance tests (2)	Steels, Alloy
Ships, Power equipment (2)	Steels, Low strength (2)
Ships, Power plants (2)	Steels, Medium strength (2)
Ships, Propellers (2)	Steels, Shipbuilding (2)
Ships, Propulsion systems (2)	Structures
Ships, Radiation control (2)	Systems, Command
Ships, Repair (2)	Systems, Communication
Ships, Rudders (2)	Systems, Control
Ships, Safety equipment (2)	
Ships, Specifications (2)	Testing methods (2)
Ships, Stability	Weldability testing (2)
Ships, Structural components (2)	Welding automatic
Ships, Systems (2)	Welding equipment
Ships, Testing (2)	Welding manual
Shipyards, Name (2)	Welding techniques
Size effects	

The key words included in this list were selected, in part, from the Bureau of Ships Thesaurus of Descriptive Terms and Code Book, 2nd edition, March 1965.

#### Appendix IV

#### COPYRIGHT

This Appendix contains documents pertinent to copyright clearance of all material which was originally covered by copyright and was included in this work.

The permission to make photostatic copies of material covered by copyright was requested by a letter, the copy of which is shown on the next page, and which was sent to the following organizations:

- 1) The Instrument Society of America
  313 Sixth Avenue "Russian Journal Industrial
  Pittsburgh 22, Pennsylvania Laboratory"
- 2) The British Welding Research
  Association
  Abington Hall
  Cambridge, England

"Russian Journal Automatic Welding"

3) Die Schiffbautechnische Gesellshaft e. V. Neuer Wall 86 Hambrug 36, Germany

"Schiff und Hafen"
"Jahrbuch der
Schiffbautechnischen Gesellschaft"

4) VEB Verlag Technik Organienburger Strasse 13/14 Berlin C2 German Democratic Republic

"Schiffbautechnik"

5) VEB Verlag fur Verkehrswesen Franzözische Strasse 13/14 Berlin W8 German Democratic Republic

"Jahrbuch der Schiffahrt"

80 Rochambeau Avenue Providence, Rhode Island 02906 August 3, 1967

The Instrument Society of America 313 Sixth Avenue Pittsburgh 22, Pennsylvania

Dear Sirs:

I would like to ask you for permission to make photostatic copies from your translation of the Russian Journal Industrial Laboratory. The request is being made in connection with a literature survey which I am making for the U. S. Coast Guard on some aspects of icebreaker construction and design.

The exact extent of the permission requested hereby is described in the enclosed clause of my contract with the U. S. Government (9-203(d) Rights in Technical Data-Specific Acquisition, May 1964). The permission should cover all volumes of the said journal published after January 1, 1956. In each case, proper reference to the title and issue of the journal will be made.

I am presently associated with the Division of Engineering at Brown University, Providence, Rhode Island 02912. My new address, as of September 1, 1967, will be:

Professor J. Dvorak Department of Civil Engineering Duke University Durham, North Carolina 27706

I am looking forward to your answer.

Yours very sincerely,

J. Dvorak

JD/mlw Enclosure

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#### CLAUSE

#### 9-203(d) RIGHTS IN TECHNICAL DATA-SPECIFIC ACQUISITION (MAY 1964)

- (a) Definition. Technical Data as used in this clause means technical writings, sound recordings, pictorial reproductions, drawings, or other graphic representations and works of a technical nature, whether or not copyrighted, which are specified to be delivered pursuant to this contract. The term does not include financial reports, cost analyses, and other information incidental to contract administration.
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- (2) No such copyrighted matter shall be included in technical data furnished hereunder without the written permission of the copyright owner for the Government to use such copyrighted matter in the manner above described.
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- (d) Relation to Patents. Nothing contained in this clause shall imply a license to the Government under any patent, or be construed as affecting the scope of any license or other right otherwise granted to the Government under any patent.
- (e) Limitation on Charges for Data. The Contractor recognizes that the Government, or a foreign government with funds derived through the Military Assistance Program or otherwise through the United States Government, may contract for property or services with respect to which the vendor may be liable to the Contractor for charges for the use of technical data on account of such a contract. The Contractor further recognizes that it is the policy of the Government not to pay in connection with its contracts, or to allow to be paid in connection with contracts made with funds derived through the Military Assistance Program or otherwise through the United States Government, charges for data which the Government has a right to use and disclose to others, which is in the public domain, which the Government has been given without restrictions upon its use and disclosure to others. This policy does not apply to reasonable reproduction, handling, mailing, and similar administrative costs incident to the furnishing of such data. In recognition of this policy, the Contractor agrees to participate in and make appropriate arrangements for the exclusion of such charges from such contracts, or for the refund of amounts received by the Contractor with respect to any such charges not so excluded.

November 1, 1967

Professor J. Dvorak
Department of Civil Engineering
Duke University
Durham, North Carolina 27706

Dear Professor Dvorak:

Please forgive the long delay in responding to your letter of August 3rd to The Instrument Society of America concerning your request to make photostatic copies from our translation of the Russian Journal Industrial Laboratory. In recent months the copyright of this journal has been transferred from The Instrument Society to us.

We would be delighted to give you permission to reproduce certain items from our journal, however, before we do so it is necessary for us to have a list of those pages you wish to copy. We look forward to hearing from you.

Sincerely yours,

Robert N. Ubell

Editor

PLENUM PRESS

RNU:ihp

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Danke Thibersting school of engineering durham, north carolina 27706

DEPARTMENT OF CIVIL ENGINEERING

NOV 21 1203

November 17, 1967

Mr. Robert N. Ubell Editor, PLENUM PRESS Plenum Publishing Corporation 227 West 17th Street New York, New York 10011

Dear Mr. Ubell:

Thank you very much for your letter of November 1 concerning the permission to make copies from the Russian Journal Industrial Laboratory.

As you have requested, I enclose herewith a list of pages which I would like to copy, Volumes and numbers refer to both the original and translation and pages only to the latter.

I look forward to receiving the permission.

Yours sincerely,

JD/lp

Enclosure

Permission Granted December 29, 1967.

PLENUM PUBLISHING CORPORATION

ALAN R. LISS

VICE PRESIDENT.

A CONTRACTOR STANDARD

Industrial Laboratory
(Zavodskaja Laboratorija)

Vol.	No.	Page Transl.
26	i	65 - 69
26	2	267 - 268
26	3	310 - 312
27	2	184 - 189
27	4	441 - 446
27	4	519 - 520
27	12	1510 - 1514
27	12	1523 - 1525
28	<u>,</u> 1	80 - 87
28	1	88 - 92
28	5	627 - 634
28	6	753 - 886
28	7	886 - 888
29	1	89 - 92
29	2	177 - 181
29	3	330 - 343
29	5	616 - 617
29	7	899 - 902
29	7	902 - 905
29	9	1193 - 1196
29	9	1210 - 1216
29	9 `	1217 ~ 1220
<b>29</b> ´	9	1221 - 1223
29	9	1224 - 1227
29	9	1235 - 1236
29	10	1352 - 1354
30	5	812
30	6	996
30	7	1077 - 1078
30	7	1093 - 1096

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Vol.	No.	Page Transl.
30	7	1097 - 1102
30	8	1272 - 1273
31	1	. 102
31	1	103 - 108
31	1	109 - 118
31	· 1	119 - 123
31	1	124 - 734
31	5	735 - 736
31	5	737 - 741
31	5	742 - 745
31	5	746 - 747
31	5	748 - 749
31	5	750 - 751
31	. 6	890 - 895
31	6 .	885 - 889
31	6	904 - 906

## BRITISH WELDING RESEARCH ASSOCIATION

ABINGTON HALL CAMBRIDGE Telephone LINTON 591 Telegrams WELDASERCH CAMBRIDGE Telex 81183

14th August, 1967

AG/JS/756

Prof. J. Dvora", Department of Civil Engineering, Duke University, Durham, North Carolina 27706, USA.

Dear Sir,

Thank you for your letter of 3 August requesting permission to make photostatic copies from our translation of the Russian journal 'Automatic Welding'.

As you may know this work is carried out under a special grant from the British Government, and the translation is therefore Crown copyright.

However, we are prepared to grant permission for you to take copies from the issues you mention (from 1 January, 1956) subject to the usual acknowledgement, i.e.:

> "This copy is made from the Russian journal 'Automatic welding' translated by the British Welding Research Association for the Department of Education and Science."

Yours faithfully,

Public Relations Officer

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Hamburg, August 11, 1967 v.S./L

Professor J. Dvorak, Esq. c/o Division Of Engineering Brown University

80 Rochambeau Avenue Providence Rhode Island 02906

U. S. A.

Dear Sir:

We thank you for your letter, dated August 3, 1967 and give you permission to make photostatic copies from our journals "Schiff und Hafen and "Jahrbuch der Schiffbautechnisenen Gesellschaft", published after January 1, 1956, regarding icebreaker construction and design.

We kindly ask you to make proper reference to the title and issue of the journal or yearbook in each case.

Yours very sincerely

SCHIFFBAUTECHNISCHE GESELLSCHAFT 6. V.

H. F. Atiebrale

(v. Seebach)

Director and Scoretary

# Schiffbautechnik

TECHNISCH-WISSENSCHAFTLICHE ZEITSCHRIFT

DDR-102

Herrn Prof. J. Dvorak Department of Civil Engineering Duke University

Durham, North Carolina 27706

Wir bitten. auf Antwortschreiben des Dikitatzeldien anzugeben

3.8.1967

2224/ ZSb/Lie/Sbk

Sehr geehrter Herr Professor !

Bezug nehmend auf Ihr Schreiben vom 3.8.1967 erteilen wir Ihnen die Genehmigung, Fotokopien aus unserer Zeitschrift "Schiffbautechnik" für den von Ihnen genannten Zweck anfertigen zu lassen.

Diese Genehmigung gilt für sämtliche Jahrgänge ab 1956. Wir möchten Sie noch einmal darauf aufmerksam machen, daß in jedem Fall korrekte Quellenangaben zu machen sind.

Hochachtungsvell

Stelly. Hauptredakteur

Verantw. Redakteur

## REDAKTION JAHRBUCH DER SCHIFFAHRT

Herrn
Professor J. Dvorak
Department of Civil Engineering
Duke University

TRAN<u>SP</u>RESS VEB VERLAG FUR VERKEHRSWESEN BERLIN 108 DERLIN FRANJÖSISCHE STR. 13/14 TELEFON: 22 02 31

BERLIN, DEN 24. August 1967 1 hze/le

Durham, North Carolina 27706

USA

# Fotokopien aus "Jahrbuch der Schiffahrt"

Sehr geehrter Herr Professor Dvorak!

Wir erlauben Ihnen hiermit, die von Ihnen gewünschten Fotokopien von Typendarstellungen beziehungsweise Bildveröffentlichungen aus beliebigen Jahrgängen unseres "Jahrbuch der Schiffahrt" vorzunehmen.

Wie Sie schon in Ihrem Schreiben vom 3. August 1967 angeben, bitter wir in diesen Zusammenhang um Angabe der Quelle, wenn eine Veröffent-lichung vorgesehen werden soll.

Wir wären Ihnen dankbar, wenn Sie uns im Falle der Veröffentlichung ein Belegezemplar schicken könnten.

Mit freundlichen Grüßen

Heinze cheflektor

80001 BRONFMAN.A.I.

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USE OF COMPRESSIO AIR FOR CLEANING OF SHIP R OUTES FROM ICE .= RECHNOU TRANSPORT, 16, DLC 1997, PP. 40-41 THIS IS A SHORT DESCRIPTION OF THE TITLE SUBJE IT IS HASED ON PRACTICAL EXPERIENCE GAINE D IN SWEDEN AND ELSEWHERE. THE COMPRESSED ATKIN DEVICE IS A PERFORATED TUBE LAYING ON THE BOT. TOM AND CONNECTED TO AN AIR COMPRESSOR. WHEN AIR IS LED INTO THE TUBE, IT ESCAPES AND THE BE UBBLES CARRY WITH THEM PARTICLES OF WARM WATER -80001 100001 WHICH DISSOLVES THE ICE. HOWEVER, THIS DEVIC E MAY BE SUCCESSFULLY USED ONLY IN GASES THAT 85661 80001 WATER DOES NOT MOVE MUCH SO THAT THERE ARE WAR MER LAYERS AT THE BOTTOM. THE BEST USE IS POS SIBLE ON SOME LAKES IN SWIDEN. THERE, ICE UP 80001 TO 25 IN. WAS DISSOLVED AFTER ABOUT TWO WEEKS 80001 14 OF WORK OF THE EQUIPMENT. A CHANNEL 17-19 YAR? DS WIDE WAS FORMED. IT IS PROPOSED THAT FOR A 86661 62 MILE LONG CHANNEL, 20 YARDS WIDE, 10 000 C 80061 UBIC YARDS PER HOUR OF AIR. TUBE DIAMETER 1.5 80001 IN., PERFORMATIONS EVERY 15 YARDS. POSSIBLE 80001 USE IN THE SOVIET UNION IS DISCUSSED. TRANSLA 80001 80001 TION OPTIONAL. 20001 ICEBREAKING METHODS METHODS. ICEBREAKING 80002 80002 80002 CHIKOVSKIJ.S. A BOOK ON ICE PHYSICS AND ENGINEERING .= 80002 80052 MORSKOJ FLOT, 24, OCT 1964, 1 P. 60052 THIS IS A REVIEW OF A BOOK BY I. S. PESCHANSKI J, LEDOVEDENIE I SLEDOTECHNIKA WHICH WAS PUBLI 80002 SHED IN 1963 STATE PUBLISHING HOUSE, MORSKOJET 80002 **30002** RANSPORT, ONLY IN 1000 COPIES. NEVERTHELESS 80002 THE BOOK IS OF HIGH QUALITY AND COVERS RESULTS OF EXTENSIVE SOVIET RESEARCH ON PHYSICAL PROP 80002 35 80302 ERTIES AND ENGINEERING ASPECTS OF ICE. OK AMOUNTS TO 34K PAGES AND AT LEAST SOME PART 80002 S WERE TRANSLATED BY DIRECTORATE OF PHYSICAL R 60002 ESEARCH, DEFENCE RESEARCH BOARD CANADA (D'PHYS 80002 • R (G) REPORT NO. MISC G-18, OCTOBER 1964). ∰ 80002 80002 (APPEARS AS A SEPARATE REFERENCE). THIS REVIE 515 W DISCUSSES THE WHOLE CONTENTS OF THE BOOK AT& 80002 SOME LENGTH. TRANSLATION RECOMMENDED. 83002 **20002** ICE CHARACTERISTICS ICEBREAKING, THEORY 80002 80002 THEORY, ICEBREAKING 80002 ICEBREAKING METHODS 80062 . METHODS, ICEBREAKING 80003 80003 80003 PECCHANSKIJ, I.S. ICE-CUTTING SHIPS AND HIGH-PRESSURE WATER JE 80003 £0003 TS FOR CUTTING ICE .= 30003 DIRECTORATE OF PHYSICAL RESEARCH, CANADA, REPT . D PHYS R(G), NO. MISC. G-18, OTTAWA, OCT 196 80003 80003 4, 5 PP. THIS IS A SHORT TRANSLATED EXTRACT FROM A BOOK 80003 BY THE TITLE AUTHOR ICE PHYSICS AND ENGINEER ! 80003 NG. LENINGRAD 1963. FOR A MORE GENERAL REVIEW 80003 503 80003 THIS BOOK, SEE REF. 80002.

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CHARACTERISTICS

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THEORY: ICENRIAKING	85693	1008
ICE-REAKING MITHODS	80003	704
METHODS, ICCHREAKING	89603	705
81331	81901	704 705 010
HERSHTEUN. V.A.	81001	101
ELIMOTORO	81001	102
KOLENKINA, T.A.	81001	103
EPOXY COATILGS FOR CORROSION PROTECTION OF S	-	201
HIPS STRUCTURAL PARTS.= SUDOSTROINIE, 27, MAY 1961, PP. 41-45	51001	100312223110 100312223110
VARIOUS EPOXY COATINGS, THEIR MECHANICAL PROPE	81001	251 \$
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COLD GURED MULTI-LAYERED REINFORCED COATINGS		
ON SOME SHIP PARTS LIKE SHAFTS, PIPING, PUMPS,	81001	
PROPELLER PLADES AND SHAFTS, ETC. SOME REFER		
ENCE TO AMERICAN TECHNIQUES IS GIVEN. TRANSLA		
TION OPTIONAL.	81601	511
CORRUSION PROTECTION	81001	701
PROTECTION, CORROSION	81001	702
CO4 TINGS	3- 81001	703
81002	81002	010
MELNIK, M. I.	81002	
SHILNIK, M.N.	81002	
A NEW PROTECTIVE COATING FOR METAL SURFACES.	81002	201
=	81002	202
SUDOSTROENIE, 25, JUN 1959, PP. 30-32	- : 81002	251
THE PROTECTIVE COATING DESCRIBED IS BASED ON A	<sub>≈</sub> 81002	301
PERCHLORVINYL RESIN WHICH IS A PVC RESIN ENRI		⇒ 502 F
CHED BY 64-65 PER CENT OF CHLOPINE. IT IS STA		503
BLE FROM -45 DEGREE C TO +170 DEGREE C (I.E		504
49 TO ÷338 DEGREE F), EASY TO APPLY, HAS EXCEL		505
LENT PROTECTIVE PROPERTIES, REASONABLE STRENGT	§ · 81002	506
H AND OTHER PROPERTIES SUITABLE FOR ITS USE FO	81002	* 507 j
R CORROSION PROTECTION OF WELDED SHIP HULLS.	81082	508
THE TECHNOLOGY OF APPLICATION AND OTHER IMPORT	81002	S
ANT DATA ARE DESCRIBED IN DETAIL. TRANSLATION	81002	510
OPTIONAL.	81002	512
CORRUSION PROTECTION	81002	731
PROTECTION, CORROSION	- 81002	702
COA TINGS	81002	70

CACHE TO THE

g			
	ICEBREAKING, THEORY	80003	702
<u>,                                    </u>	THEORY. ICEBREAKING	80003	703
	ICEBREAKING METHODS	80003	704
Š _	METHODS, ICEBREAKING	£0003	705
	80004	80004	011
	SHESTERIKOV, N. D.	80004	101
	ON A METHOD OF ICE MELTING ANALYSIS.=	80004	201
	PROBLEMY ARKT, 1 ANTARKT., 15, 1964, P. 19-23	80004	251
<b>)</b> _	THIS IS AN ILLUSTRATIVE ARTICLE ON A PROCEDURE	80004	501
g g	WHICH MAY BE USED IN EVALUATIONS OF ICE MELTI	80004	502
£	NG. IT IS BASED ON A HEAT BALANCE ANALYSIS WH	80004	5021
þ	ICH INCLUDES PARAMETERS REFERRING TO ICE PROPE	80004	. 504 🖔
<u> </u>	RTIES, SOLAR RADIATION AND ACCOUNTS ALSO FOR H	80004	505
	EAT LOSS INTO SURROUNDING WATER. THE METHOD C	80004	506
<b>`</b> }	AN BE USED FOR LONG TERM ESTIMATES OF ICE COVE	80004	507_ <sup>5</sup>
	R BEHAVIOR IN POLAR REGIONS. AN EXAMPLE IS WO	80004	508
l	RKED OUT AND SCHE OBSERVATIONS ARE INCLUDED.	80004	509
P	TRANSLATION OPTIONAL.	80004	510
<b>I</b>	ARCTIC RESEARCH	80004	701
	ICE CONDITIONS, FORECAST	80004	702
2_	ICE CHARACTERISTICS	80004	703
	80005	80005	011
L_	SHVAJSHTEJN, J. I.	80005	101
•	A SEMICONDUCTOR SALT GAUGE FOR MEASUREMENT O	80005	201
_	F SEA ICE SALINITY.=	80005	202
į	PROBLEMY ARKT. I ANTARKT., 15, 1964, P. 85-87	80005	251
?	THIS IS A SHORT ARTICLE ON THE TITLE TOPIC. I	80005	501
1	T INCLUDES A BRIEF DESCRIPTION OF THE GAUGE AN	80005	502
	D GIVES COMPARATIVE DATA FOR EVALUATION OF THE	80005	503
•	GAUGE SENSITIVITY ON BASIS OF HORE TEDIOUS RE	80005	504
_	THODS.	80005	505
	ICE CHARACTERISTICS	80005	701
<b>}</b>	80006	80006	011
1	PESCHANSKIJ, I. S.	80006	101
L_	SHVAJSHTEJN, J. I.	80006	102
•	KAGAN, G. L.	80006	103
_	NAJINCEV, JU. L.	80006	104
	MECHANICAL PROPERTIES OF HARDRNED ICE.=	80006	201
<b>)</b>	PROBLEMY ARKT. I ANTARKT., 16, 1964, P. 45-53	80006	251
	THIS IS A DETAILED ARTICLE ON POSSIBILITIES OF	80006	501

Secretary of the second second

USE OF ICE AS A BUILDING MATERIAL FOR EXRING STRUCTURES. IT IS SHOWN THAT ICE PR		
IES CAN BE INT/OVED VERY EFFECTIVELY IF 5		
RCENT OF WOOD FIRTH OF WOOD PULL IS FROZE		•
THE ICE. MECHANICAL PROPERTIES INCREASE		
FACTOR OF THERE, BUT THE YOUNG'S YOULUS		
ASES, DUCTILITY IS RADUCED AS WELL AS CRE	EP RA 800	06 508
TE. TRANSLATION OPTIONAL.	800	06 509
ICE CHARACTERISTICS	800	
80007	800	
LAVROV, V. V.	800	
THE INPLUENCE OF SLIP MECHANISM ON THE		
GTH OF ICE.=	800	
PROBLEMY ARKT. I ANTARKT., 17, 1964, p. 6	1-65 800	
THIS IS A SHORT ARTICLE DEALING WITH THE		
N PATE AND TEMPERATURE SENSIFIVITY OF MEC		
AL PROPERTIES OF ICE. NO ATTEMPT IS NADE		
EACH GENERAL CONCLUSIONS AND ONLY FEW EXT		
NTAL RESULTS ARE MENTIONED WITH THE RESULT THE STRENGTH MAY SUBSTANTIALLY DECREASE		-
MAX LOAD IS APPLIED RAPIDLY I.E. WITHIN		
ECOND. ALSO A DECREASE IN STRENGTH OBSER		= :
S THE MELTING TEMPERATURE IS BEING AMPROA		
ICE CHARACTERISTICS	800	* *
ICEBREAKING THEORY	800	
THUCRY, ICEBREAKING	800	
80008	800	
KHEJSIN, D. E.	800	
VIBRATION OF A FLOATING ICE COVER. =	800	
PROBLEMY APKT. I ANTARKT., 12, 1963, P. 1		
2	800	
THIS IS A DETAILED THEORETICAL APTICLE ON		
TITLE TOPIC. THE ICE COVER IS CONSIDERED		
THIN ELASTIC ISOTROPIC PLATE SUPPOPTED F		
IDEAL FLUID. DIFFERENTIAL EQUATION OF MC		-
IS DERIVED AND SOLVED BOTH FOR THE CASE OF		
E AND FORCED VIBRATIONS. TRANSLATION OPT	PIONAL 890 800	
TON CUADACOURD CONTCC	800	
ICE CHARACTERISTICS	800	
ICE FESISTANCE RESISTANCE, ICE	800	
ICEBREAKING, THEORY	800	
THEORY, ICEBREAKING	800	
80009	800	
BUZUEV, A. JA.	800	09 101
ON THE CONNECTION BETWEEN BENDING STREET	GTH A 800	09 201
ND DENSITY OF BROKEN ICE.=	800	
PROBLEMY ARKT. I ANTARKT., 13, 1965, P.	69-11 800	
2	800	
THIS IS A SHORT BUT INTERESTING APTICLE &	HTCH 800	
ATTEMPTS TO ESTABLISH A RELATION BETWEEN	THE D 800	
ENSITY OF BROKEN ICE IN A LARGE FIELD AND	) THE 800	
MAGITUDE OF IDEALIZED BENDING STRENGTH, W	HICH 800	
IS OFTEN USED IN FORMULAS FOR EVALUATION	OF IC 800	
E RESISTANCE TO ICEBREAKER MOTION. IT IS	MAIN 900	
TAINED THAT SUCH FELATIONSHIP WILL PROVID	DE ANG 800	
THER USEFUL CORNECTION BETWEEN AIR RECOND	RAISSA 800 E EASI 800	
NCE OF ICE SITUATION AND SELECTION OF THE		
EST PATH FOR AN ICEBREAKER. EXPERIMENTAL	, DKIK 800	217
C. C	-	
	•	
· ·	. : ·	

A PARTICULAR SECTION OF THE PROPERTY OF THE PR	•	
ARE SHOWN TO INDICATE THE PROPOSED RELATIONSH	80009	511 512
IP AS A FUNCTION OF ICE COVER THICKNESS. TRAN	<u>80009</u> 80009	512 513
SLATION OPTIONAL.	80009	701
ICE CHARACTERISTICS ICE CONDITIONS	80009	702
ICF RESISTANCE	80000	702
RESISTANCE, ICE	80009	704
ICEBREAKING THEORY -	80009	705
THEORY, ICEBREAKING	80009	706
80010	80010	011
SHVAJNSTEJN, Z. I.	80010	101
DRILLING IN ICE FROM THE BOTTOM TO THE UPPER	80010	201
SURFACE.=	90010	202
PROBLEMY ART. I ANTARKT, 13, 1963, P. 123-125	80010	<u>251</u>
THIS IS A SHORT BUT DETAILED ARTICLE ON DRILLI	80010	501
NG OF HOLES OF LAPGE DIAMPTER IN THICK ICE, AS	80010	502
IS OFTEN REQUIRED IN OCEANOGRAPHICAL WORK. W	80010 80010	503 504
HEN SUCH HOLES ARE DRILLED FROM THE SUPPACE, I	80010 80010	505
T IS NECESSARY TO REMOVE THE DRILLINGS FROM THE HOLE. WHEN THE HOLES ARE DRILLED FROM THE B	80010 80010	505 506
OTTOM, THERE IS NO SUCH PROBLEM AND THE WORK I	80010	507
S MUCH FASTER. TWO DEVICES ARE SHOWN WHICH CA	80010	508
N BE SUBMERGED THROUGH A SMALL-DIAMETER HOLE A	80010	509
ND USED TO DRILL A LARGE DIAMETER ONE.	80010	510
ARCTIC RESEARCH	80010	701
ICEBREAKING METHODS	80010	702
METHODS, ICEBREAKING	80010	703
80011	90011	011
DORONIN, JU. P.	80011	101
A MECHANICAL METHOD FOR EVALUATION OF THE TH	80011	<u> 201</u>
ICKNESS AND TEMPERATURE OF ICE.=	80011	202
PROBLEMY ARKT. I ANTARKT., 14, 1963, P. 17-25	80011	<u>251</u> 501
THIS IS A DETAILED THEORETICAL ARTICLE DEALING	80011 80011	502
WITH A DERIVATION OF A NUMERICAL SOLUTION OF THE EQUATION OF HEAT CONDUCTION FOR AN INPINIT	80011	503
E PLATE WITH APPROPRIATE CONDITIONS ON THE ICE	80011	504
-WATER AND ICE-AIR BOUNDARIES. THE FORMULATIO	80011	505
N IS MODIFIED WITH RESPECT TO PHYSICAL PROPERT	80011	506
IES OF ICE. THE SOLUTION MAY BE OBTAINED FROM	80011	507
A COMPUTER AND USED FOR LONG-TERM FORECASTS O	80011	508
F THE ICE THICKNESS.	80011	509
ARCTIC RESEARCH	80011	701
MATHEMATICAL METHODS	80011	702
METHODS, MATHEMATICAL	80011	703
ICE CONDITIONS, FORECAST	80011	704
ICE CHARACTERISTICS	80011	705
80013	· 80013	011
SHVAJNSTEJN, Z. I.	80013	101
STANDARD EXPLOSIVE CHARGES FOR ICEBREAKING P	80013	201
URPOSES.=	80013 80013	202 261
PROBLEMY ARKT. I ANTARKT., 14, 1963, P. 83-86	80013	201 501
SEVERAL EXPLOSIVE DEVICES ARE DESCRIBED WHICH	80013	502
CAN BE USED AS SUPPLEMENTARY MEANS FOR ICEBREA	80013	502
KING IN CASES OF INSUFFICIENT CAPACITY OF ICEB	80013	504
REAKING SHIPS.	80013	701
ICEBREAKING METHODS METHODS, ICEBREAKING	80013	732
80014	80014	202 251 501 502 503 504 701 732 011
SEMIKOV, T. T.	80014	101
www.nvv		

	ON DUMBERTHANTON OF TOO GUADACORDITONTO OF D		
,	ON DETERMINATION OF ICE CHARACTERISTICS BY R	89014 80014	20
	RUDY C.N.I.I. MORSKOGO FLOTA, 16, 1958, P. 3-	80014	25
	10.	80014	25 25
	HIS IS A DETAILED ARTICLE ON THE TITLE TOPIC.	80014	50
	IT DERIVES ENERGY RELATIONSHIPS BETWEEN THE	80014	50
	HARACTERISTICS OF THE RADAR STATION AND THE I	80014	50
	E CHARACTERISTICS, LIKE DENSITY OF PROKEN ICE	80014	50
	AND SIZE OF THE FLOES AND SURFACE ROUGHNESS.	80014	50
	TRANSLATION OFFICIAL.	80014	50
	CE CONDITIONS, FORECAST	80014	70
	CE CHARACTERISTICS	80014	70:
	30015	80015	01
<u>-</u> -	GEMIKOV, T. T. ON SELECTION OF THE AMPLITUDE CHARACTERISTIC	80015	10
	OF A ICE-RECONNAISSANCE RADAR STATION.=	80015 80015	20 20
7	CRUDY C.N.I.I. MORSKOGO FLOTA, 23, 1959, P. 51	80015	25°
	-55	80015	25
	MIS IS A DETAILED ARTICLE ON THE TITLE TOPIC.	80015	50
	IT IS CONCLUDED THAT A LINEAR-LOGARITHMIC AM	80015	50:
E	LITUDE CHARACTERISTIC OF THE RECEIVER IS MOST	80015	50.
	ADVANTAGEOUS FOR ICE PECONNAISSANCE PURPOSES.	80015	50
	CE CHARACTERISTICS	80015	70
	CE CONDITIONS, FORECAST	80015	70:
	OOO16 VANES, A. V.	80016	01 10
	ON EVALUATION OF HEAT TRANSFER IN THE ICE CO	80016 80016	20
v	ER.=	80016	20:
	PROBLEMY AFKT. I ANTARKT. 1, 1959, P. 49-58	80016	25
	HIS IS A DESCRIPTION OF AN APPROXIMATE PROCED	80016	50
τ	RE POR EVALUATION OF THE HEAT TRANSFER BETWEE	80016	50:
	AIR AND WATER THPOUGH THE ICE COVER OF A GIV	80016	50:
	IN THICKNESS. LONG-TERM FORECASTS ARE OBTAINE	80016	504
	).	80016	<u>50</u>
	CE CONDITIONS, FORECAST	80016	70
	NAZINCEV, JU. L.	80017 80017	01 10
D	EXPERIMENTAL DETERMINATION OF HEAT CAPACITY	80017	20
2	ND HEAT CONDUCTIVITY OF SEA ICE. =	80017	20
	ROBLEMY ARKT. I ANTARKT., 1, 1959, P. 65-71	80017	25
	HEORETICAL ESTIMATES OF THE HEAT CAPACITY OF	80017	50
	EA ICE ARE COMPARED WITH CALORIMETRIC MEASURE	80017	50
	ENTS AND FOUND TO PROVIDE SATISFACTORY RESULT	80017	50
	. THE HEAT CONDUCTIVITY CAN BE ALSO ESTIMATE	80017	50
	PROVIDING THAT THE CONDITIONS AT THE WATER-I	80017	50!
	E AND ICE-AIR BOUNDARIES ARE KNOWN.	80017	500
	CE CHARACTERISTICS	80017	70 70:
	CE CONDITIONS, FORECAST	80017 80018	01
	ORONIN, JU. P.	80018	10
	CN GROWTH OF SEA ICE.=	80018	20
F	PROBLEMY ARKT. I ANTARKT. 1, 1959, P. 73-80.	80018	25
	HEORETICAL ESTIMATES WHICH ARE AVAILABLE FOR	80018	50
F	VALUATION OF ICE GROWTH ARE COMPARED AND A NE	80018	50:
	ONE IS DERIVED. IT IS THEN COMPARED WITH OB	80018	50
	ERVED GROWTH OF SEA ICE OF GIVEN SALINITY WIT	80018	50 50
	OR WITHOUT SNOW COVER UNDER KNOWN ENVIRONMEN	80018	50
	AL CONDITIONS. FAIRLY ACCURATE AGREEMENT WAS	80018	50 50
C	BTAINED.	80018	50

and the second and the second

ICE CHARACTERISTICS	80018	
ICE CONDITIONS, FORECAST	80018	
80019	80019	{
LOSHSCHILOV, V. S.	80019	·
THE USE OF AEROPHOTOGRAPHY IN ICE-RECONNAISS	80019	
ANCE FOR DETERMINATION OF AVEHAGE ICE THICKNES	80019	
S.=	80019	
PROBLEMY ARKT. I ANTARKT, 1, 1959 — THIS IS A DETAILED ARTICLE ON EVALUATION OF AE	<u>80019</u> 80019	
ROPHOTOGRAPHS WITH RESPECT TO DETERMINATION OF	80019	·
THICKNESS OF ICE AND SNOW COVER. THE METHOD	80019	
CONSISTS BASICALLY IN EVALUATION OF HEIGHT OF	80019	
THE ICE ABOVE WATERLINE AT SEVERAL PLACES AND	80019	
IN CONSIDERATION OF WATER AND ICF CHARACTERIST	80019	<u></u>
ICS WHICH INFLUENCE THE EQUILIBRIUM HEIGHT. I	80019	1
N THAT THE METHOD HAS EVENETUE DEACTION HER	80019 80019	
N THAT THE METHOD HAS EXTENSIVE PRACTICAL USE. ICE CONDITIONS, FORECAST	80019 80019	
ICE CHARACTERISTICS	80019	
80020	90020	
ZHUKOV, V. S.	80020	
APPLICATION OF ELECTRONIC, ACOUSTIC AND RADI	80020	
OMETRIC METHODS FOR INVESTIGATION OF ICE PROPE	80020	
RTIES. = 22 - 02 - 02 - 02 - 02 - 02 - 02 - 02	80020	
PROBLEMY ARKT. I ANTARKT., 2, 1960, P. 83-93 THIS IS AN EXTENSIVE ARTICLE ON THE TITLE TOPT	80020 80020	
C. INDIVIDUAL MEASUREMENT TECHNIQUES ARE DESC	80020	
RIBED AND THEIR ACCURACY AND RELIABILITY IS DE	80020	
SCRIBED. ALL METHODS ARE SUITABLE FOR FIELD M	80020	
EASUREMENTS. THEIR IMPORTANCE IN ICE CONDITIO	80020	
NS FORECAST IS MENTIONED.	80020	
ICE CHARACTERISTICS	80020	
EXFERIMENTAL METHODS METHODS, EXPERIMENTAL	80020 80020	
ICE CONDITIONS, PORECAST	8002C	
80021	80021	
MOLOCHNOV, G. V.	80021	
CHEREPANOV, N. V.	80021	
THE USE OF A DIPOLE ELECTROMAGNETIC METHOD F	86021	
OR DETERMINATION OF SEA ICE THICKNESS.=	80021	
PROBLEMY ARKT. I ANTARKT., 3, 1960, P. 77-83 THE METHOD DESCRIBED CONSISTS OF THE FOLLOWING	80021 80021	
• AN ELECTROMAGNETIC FIELD IS PRODUCED BY A S	80021	
PECIAL HORIZONTAL ANTENNA ON THE ICE SUPPACE.	80021	
THE FIELD MAY BE CONSIDERED AT A SUFFICIENT D	80021	
ISTANCE, AS EQUIVALENT TO A FIELD OF A VERTICA	80021	
L MAGNETIC DIPOLE. THUS, EDDY CURRENTS ARE GE	80021	
NERATED IN SEA WATER AND A MAGNETIC FIELD WHIC	80021	
H IS ANALOGOUS TO THE ORIGINAL FIELD, BUT REPR	80021 80021	
ESENTS ITS MIRBOR REFLECTION WITH RESPECT TO T HE WATER SURFACE IS GENERATED. FROM SUPERPOSI	80021	· · · · · · · · · · · · · · · · · ·
TION OF THE TWO FIELDS, AN EXPRESSION FOR ICE	80021	
THICKNESS CAN BE DERIVED. EXPERIMENTS ARE REP	80021	*
ORTED TO SHOW GOOD AGREEMENT OF THE METHOD WIT	80021	
H DIRECT MEASUREMENTS.	80021	
ICE CHARACTERISTICS	80021	
ICE CONDITIONS	80021	
MEASUREMENT METHODS	<u>80021</u> 80021	
METHODS, MEASUREMENT	00021	

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	The state of the s	Same Same Same Same Same	Control of the Contro
	80022	80022	011
	PESCHANSKIJ, I. S.	80022	101
	ARCTIC AND ANTARCTIC SEA ICE.=	80022	201
	PROBLEMY ARKT. I ARTARET., 4, 1960, F. 111-129	80022	251
	THIS IS AN EXTENSIVE SURVEY APPLICLE ON MAIN BE	80022	503
	SULTS WHICH WERE OFFAINED BY THE ICE RESEARCH	80022	502
	LABORATORY OF THE ARCTIC INSTITUTE BETWEEN 194	80022	503
	5 AND 1959. THE INVESTIGATIONS BY THE LABOPAT	80022	504
	ORY WERE DIRECTED INTO TWO AREAS: INVESTIGATI	80022	505
	ON OF PHYSICAL PROPERTIES OF ICE AND, INVESTIG	80022	506
	ATION OF THE ICE COVER AS A GEOGRAPHIC OBJECT.	80022	507
	A WIDE VARIETY OF TOPICS IS TISCUSSED AND THE	80022	<u>508</u>
	E MAIN RESULTS ARE MENTIONED. NECHANICAL PROPERTIES AS THEY RESULT FROM THERMAL AND STRAIN	80022	~ 509
	HISTORY OF ICE DURING THE YEAR ARE CONSIDERED	80022	<u>-510</u>
	AT LENGTH. NO REFERENCES ARE GIVEN. TRANSLAT	80022	- 511 512
	ION OPTIONAL.	80022 80022	512 513
	ICE CHARACTERISTICS	80022 - 80022	701
	ICE CONDITIONS	80022	702
	NEASUREMENT METHODS	80022	703
	METHODS, MEASUREMENT	80022	704
	ARCTIC RESEARCH	80022	705
	80023	80023	011
	KASHTELJAN, V. I.	80023	101
	APPROXIMATE DETERMINATION OF FORCES TO BREAK	80023	201
	THE ICE COVER.=	80023	202
	PROBLEMY ARKT. I ANTARKT,, 5, 1960, 9. 31-37.	80023	251
	THIS IS A THEORETICAL STUDY WHICH ATTEMPTS TO	80023	501
	CONSTRUCT AN APPROXIMATE SOLUTION TO THE PROBL	80023	502
	EN OF PRACTURE OF AN ICE PLATE BY CONSIDERING	80023	503
	THAT IT HAS A WEDGE SHAPE AND THAT IT IS LOADE.	60023	504
	D BY A CONCENTRATED FORCE. THIS ACCOUNTS FOR	80923	505
	THE FINAL STAGE OF ICE FRACTURE WHICH IS CHARA	8002-3	506
	CTERIZED BY DEVELOPMENT OF RADIAL CRACKS. RFS	80023	507
	ULTS OF THE ANALYSIS ARE COMPARED WITH EXPERIM	80023	508
	ENTS, BUT ONLY FOR SHALL THICKNESSES, AND A GO	80023	509
	OD AGREEMENT IS FOUND. THE ANALYSIS IS USEFUL	80023	510
	IN EVALUATION OF FORCES ACTING ON AN ICEBREAK	80023	511
	ER.	80023	512
	ICEBREAKING THEORY	80023	701
	THEORY, ICEBREAKING	80023	70.7
	ICE RESISTANCE	80023	
	RESISTANCE, ICE	80023	704
	80024	80024	011
	KOPTEV, A. P.	80024	101
	THERMOPHYSICAL PROPERTIES OF THE SNOW COVER.	80024	201
	= nnont nuv anvo r augustivo 6 1050 n 60.61	80024	202 251
	PROBLEMY ARKT. I ANTARKT., 5, 1960, P. 59-61	80024	
	THIS IS A DESCRIPTION OF EXPERIMENTS WHICH WER	80024	-501
	E PERFORMED IN ORDER TO DETERMINE THE PROPERTI ES OF THE SNOW COVER AND ITS INFLUENCE ON THE	80024 80024	502 \$ 503 \$
	TOTAL HEAT TRANSFER BETWEEN ICE AND AIR. HEAT	80024	504 §
	CAPACITY, HEAT CONDUCTIVITY AND TEMPERATURE C	80024	505
	ONDUCTIVITY OF THE SNOW COVER ARE GIVEN.	80024	506
	SNOW CHARACTERISTICS	80024	701
		' 80024	
	ICE CONDITIONS, FORECAST	80024	702 8 011
	80025 DEMENTEV, KH. N.	80025	101
	HEATEN LENG ROLL No.	OUVZJ	IVIS
	DEMEDIATION OF DANAMIC STODNESS OF TOP		201
	DETERMINATION OF DYNAMIC HARDNESS OF ICE.=	80025	101 201

			ž
9	PROBLEMY ARKY, I ANTARKT, 1961, P. 52-53	80025	251
	A BRIEF DESCRIPTION OF A FIFED DYNAMIC HAPDERS	<u> </u>	<u>501</u>
	S MEASUREMENT DEVICE IS DESCRIBED WHICH MAY BE	80025	502
	USED FOR DIFFCT MEASURFMENTS ON THE TOP SHREA	<u>90025</u>	503
	CE. NO SPECIMENS ARE NECESSARY. PRESUMABLY,	80025	504
	THE RESULTS OBTAINED COULD BE RELATED TO MECH	80025	505
<b>J</b>	ANICAL PROPERTIES IN SOME EMPIRICAL MANNER.  ICE CHARACTERISTICS	80025	506
	MEASUREMENT METHODS	90025 80025	<u>701</u> 702
•	METHODS, MEASUREMENT	80025	702
	80026	80026	011
	CHIKOVSKIJ, S. S.	80026	101
) 	ON THE INFLUENCE OF TEMPERATURE OF SEA ICE O	80026	201
	N ITS STRENGTH.=	80020	201
<b>—</b>	PROBLEMY ARKT. I ANTARKT., 9, 1961, P. 93-96	80026	251
<b>&gt;</b>	EXPERIMENTAL RESULTS ON THE TITLE TOPIC APE RE	80026 80026	501
r —	POSTED WITH MAIN EMPHASIS ON BENDING STRENGTH.	80026	502
	INFLUENCE OF SALINITY AND THAT OF SOLIDIFICA	80026	503
<b>&gt;</b>	TION IS RECORDED. IT APPEARS THAT THE EARLY F	80026	504
	ALL ICE HAS LOWEST SALINITY, AND HIGHEST BENDY	80026	505
	NG STRENGTH, WHILE WINTER ICE HAS HIGHER SALIN	80926	506
•	ITY AND LOWER STRENGTH. IN ADDITION, THE STRE	80026	507_
	NGTH DECREASES WITH INCREASING TEMPERATURE, MU	80026	508
<b>.</b>	CH EARLIER IN THE LATTER CASE.	80036	509
•	ICE CHARACTERISTICS	80026	701
!	ICE CONDITIONS, FORECAST	80026	702
}	80027	80027	011
<b>&gt;</b>	I. ATOV, D. S.	80027	<u> 161 </u>
	RESULTS OF EVALUATION OF HEAT CONDUCTIVITY O	80027	201
<u></u>	P SEA ICE.=	80027	505
?	PROBLEMY ARKT. I ANTARKT, 9, 1961, P. 79-82	80027	251
!	COEFFICIENTS OF HEAT CONDUCTIVITY OF ICE ARE F	80027	<u>501</u>
L	VALUATED IN VARIOUS DEPTHS OF THE ICE COVER.	80027	502
P —	DISTRIBUTION OF SALINITY AND DENSITY OF THE IC	<u>80027</u>	<u>503</u>
	E IS ALSO RECORDED.	80027	504
	ICE CHARACTERISTICS :	8002 <b>7</b> 8002 <b>7</b>	701 702
	TCE CONDITIONS, FORECAST 80028	80027 80028	011
—	KUPECKIJ; V. N.	80028	101
3	ON LUMINFSCENCE OF SEA ICE.=	80028	201
7-	PROBLEMY ARKT. I ANTARKT., 9, 1961, P. 105-106	80028	251
1	THIS IS A BRIEF ARTICLE WHICH PEPORTS THE RARE	80028	501
5	LY OBSERVED PHENOXENON OF ! UNINESCENCE OF PRIM	80028	502
	ARY SEA ICF DURING FRACTURI G. POSSIBLE EXPLA	80028	50.3
1	NATIONS ARE DISCUSSED.	80028	504
•	ICE CHARACTERISTICS	80028	701
<b>_</b>	80029	80029	011
1	JAKOVLEV, G. N.	80029	101
<b>5</b>	ICE STUDIES IN CENTRAL ARCTIC. =	80029	201
1	PROBLEMY ARKT. I ANTASKT., 11, 1962, P. 47-57	80029	251
-	THIS IS AN EXTENSIVE SURVEY ARTICLE WHICH SUMM	80029	501
<b>D</b>	ARIZES THE PESULTS OBTAINED IN 1950-1962. MFC	80029	502
	HANICAL THERMAL AND OTHER PHYSICAL PROPERTIES	80029	503
<u> </u>	ARE INCLUSED. 26 REFERENCES ARE GIVEN.	80029	504
<b>3</b>	ICE CHARACTERISTICS	80029	701
	ICE CONDITIONS, FORECAST	80029	702
_	ARCTIC RESEARCH	80029	703
<b>9</b>	80030	80030	011
	ANCNYMOUS	80030	101
L			

Billion of the same of the same

3

· .

	ICE BREAKING ON THE ODER FIVER.=	80030	201 251 501 502 503 504 505 506
<b>6</b>	SCHIFFAHRT, 1964, P. 111-116	80030	251
N.	THIS IS A DESCRIPTIVE ARTICLE ON THE MAINTENAN	90030	501 🕺
<b>》</b> _	CE OF TRANSPORTATION OR THE ODER RIVER IN FAST	80630	502
ge L	GERMANY DUBING WINTER. ICE CONDITIONS ARE DI	80030	503
E. —	SCUSSED, THEIR INFLHENCE ON SHIPPING, PEROVAL	80030	504
	OF ICE AND ICEBSFAKING. ALSO, SCHE ATTENTION	80030	505
¥ —	IS GIVEN TO THE SMALL ICEBREAKERS EMPLOYED IN THE CLEARING OPERATIONS.	8003C	
E.	ICE CONDITIONS	80030	507
<b>F</b>	ICEBREAKING TUGS	<u>80030</u> 80030	701 702 3
	TUGS, ICEBREAKING	80030	703
<b>約</b>	80031	80031	011
	NIKOLAEV, S. E.	80031	101
	ICE STUDIES.=	80031	201
<b>b</b>	TRUDY SOV. ANTARKT. EXPEDICIT, 51, 1967, P. 10	80031	251
	1-107	80031	252
<b>-</b>	THIS IS A DESCRIPTIVE ARTICLE ON INVESTIGATION	80031	501
رچ د	OF MECHANICAL AND OTHER PHYSICAL PROPERTIES O	80031	502
#	F PRIMARY ICE. THE BENDING STRENGTH OF ICE CL	80031	503
- -	OSE TO THE PREEZING THMPERATURE ARE REPORTED.	80031	504
<b>影</b> —	SOME ATTENTION IS ALSO GIVEN TO USE OF EXPLOS	80031	505
¥	IVE CHARGES IN ICEBREAKING. ARCTIC RESEARCH	8003 <b>1</b> 80031	506   701
<b>転</b> —	ICE CHARACTERISTICS	80031	702
	ICE CONDITIONS	80031	703
ŧ -	ICEBREAKING METHODS	80031	704 1
	METHODS, ICEBREAKING	80031	705
	80032	80032	011
¥ _	SEKUROV, A. V.	80032	101
Ð	SPECIAL FEATURES OF DEVELOPMENT OF A ELECTRO	80032	201
<b>.</b> —	THERMAL DRILLING SYSTEM FOR ICF AND THE RESULT	80032	202
\$	S OF ITS TESTING IN MIRNYJ IN 1965-1966.=	80032	203
<u>و</u>	BJULLTEN SOV. ANTARKT. FKSPEDICII, 60, 1967.	80032	251
Ž.	P. 59-62 THIS IS A DESCRIPTIVE ARTICLE ON THE TITLE TOP	80032	252
	IC. THE DEVICE UNDER CONSIDERATION IS CAPABLE	80032 80032	501 502
Ĭ	OF DRIVING DEEP HOLES, ABOUT 6 IN. IN DIAMET	80032	503
ğ	ER AT THE RATE OF ABOUT S FT. PER HOUR.	80032	504
<b>1</b> 5	ARCTIC PESEARCH	80032	701
	80033	80033	011
<b>.</b>	NIKIFOROV, E. G.	80033	101
	GUDKOVICH, Z. H.	80033	102
<u> </u>	EFIMOV, JU. N ROMANOV, M. A.	80033	103
<u></u>	FOUNDATIONS OF ANALYSIS OF REDISTRIBUTION OF	80033	201
د	ICE IN ARCTIC SEAS DURING THE NAVIGATION PERI	80033	202
20 20 20 20 20 20 20 20 20 20 20 20 20 2	OD UNDER THE INFLUENCE OF HIND.=	80033	203
_	TRUDY ARKT. I ANTARKT. N. I. INSTITUTA, 257, 1	80033	251 §
ب	967, P. 5-25 THIS IS AN EXTENSIVE AND DETAILED ARTICLE ON A	80033 80033	252 \$ 501 \$
_	NUMERICAL (COMPUTER) HETHOD WHICH CAN BE USED	80033	502
i c	IN EVALUATION OF ICE DRIFT UNDER WIND IN LARG	80033	503
<b>—</b>	E SEA AREAS. THE INFLUENCE OF SHORES IS TAKEN	80033	500 8
	INTO ACCOUNT. THE METHOL MAY BE USEFUL IN IC	80033	505
්ට <sup>—</sup>	E PROGNOSIS.	80033	506
3	ICE CONDITION FORECAST	80033	701 營
	NUMERICAL METHODS	80033	702
စ္မွာ	METHODS, NUMERICAL	80033	703 §
8	80034	80034	505 506 701 702 703 011
ğ		·	
EO T		-	Ö

A Section 1991 County and section of the section of

The second of th

***************************************			····
	RONIN, JU. P.	80034	10
	ETANNIKOVA, A. V.	80034	1(
	THE INFLUENCE OF METEROLOGICAL FACTORS ON IC	80034	20
	GROWTH PERIODS.=	8/10/34	2.0
	UDY ARKT. I ANTARKT. N. I. INSTITUTA, 257, 1	80034	2'
	7. P.45-56	80034	2
	IS IS A DETAILED THEORETICAL ARTICLE WHICH A	80034	50
	EMPTS TO FIND AN ANALYTIC EXPIESSION FOR PER	80034	5(
	DS OF ICE GROWTH FROM KNOWN METEROLOGICAL FA	80034	50
	ORS LIKE TEMPERATURE AND QUMIDITY OF AIR, RA	80034	5(
	ATION BALANCE AND DIRECTION OF WIND. THE PR	80034	50
	ERTIES OF SEA WATER ARE ALSO CONSIDERED. TH	80034	5
E	PROCEDURE MAY BE USED FOR LONG-TIME FORECAST	80034	56
s.		80034	5
IC	E CONDITIONS, FORECASTS	80034	7
MA	THEMATICAL METHODS	80034	7
ME	THODS, MATHEMATICAL	80034	7
	035	80035	0.
	ESTERIKOV, N. P.	80035	1(
	ABSORBTION OF SUN RADIATION BY SEA ICF.=	80035	2
	UDY ARKT, I ANTARKT. N.I. INSTITUTA, 257, 19	80035	2
	.P.78-93	80035	2
	IS IS A SHORT STUDY ON THE TITLE TOPIC. IT	80035	5
	SHOWN THAT THE SPECIFIC MELTING HEAT OF ICE	80035	5
	ECREASES SUBSTANTIALLY WITHIN THE 12 INCH UP	80035	5
	R LAYER OF THE ICE COVER DUE TO THE ABSORBTI	80035	5
	OF SUN RADIATION.	80035	50
	E CONDITIONS, FORECAST	80035	7
	E PROPERTIES	80035	7
	036	80036	Ċ
	MOKHOV, L. A.	80036	1
	ON DYNAMICS OF THE ICE COVER AND ON CHANGES	80036	2
	ITS DENSITY.=	80036	2
	UDY ARKT. I ANTARKT, N.I. INSTITUTA, 257, 19	80036	2
	,P.125-134	80036	2
	IS IS A DETAILED STUDY ON INTERNAL AND EXTER	80036	5
	L FORCES WHICH INFLUENCE THE DYNAMICS OF A F	80036	5
	LD OF BROKEN ICE. IT IS SHOWN THAT DENSITY	80036	5
	SUCH ICE FIELD IS AN IMPORTANT PARAMETER WI	80036	0
	CONSEQUENCES ON THE DYNAMICS OF THE FIELD.	80036	5
	HE RESULTS CAN BE USED FOR ICE CONDITIONS FO	80036	<u></u> 5
	CASTS.	80036	5
	E CONDITIONS, FORECAST	80036	7
	•	80036	7
	E CHARACTERISTICS	80037	0
	037	80037	4
	RTENEY, G. M.		!
	EPKOV, L. P.	80037	1( 2) 2
	ON THE NATURE OF THE SCALE EFFECT IN ICE.=	80037	
	DUSTRIAL LABORATORY, 26, MAR 1960, P. 352-35	80037	2
<u> </u>		80037	2
	IS IS A SHORT ARTICLE WHICH ATTEMPTS TO JUST	80037	5
	Y THE USE OF STATISTICAL APPROACH TO THE STR	86037	
	GTH OF ICE. AN ANALOGY TO THE PROPERTIES OF	80037	5
	LASS IS PROPOSED. IN ENGLISH.	80037	5
	E CHARACTERISTICS	80037	7
	ZE EFFECT	80037	7
80	038	80038	0
LO	SHCHILOV, V. S.	80038	56 56 55 57 77 0 11
	SNOW COVER ON THE ICE OF CENTRAL ARCTIC.=	80038	26

PERIODE NATIONAL CONTRACTOR

	•		
	••	• •	, , , , , , , , , , , , , , , , , , ,
	PROBLEMY AIKT. I ANCARKT., 17, 1964, P. 36-45	80038	251
	THIS IS AN EXITENSIVE AND PROPORTION APPROPRIES ON THE	80038	<u>501</u>
	HE TITLE TOPIC. ETSUITS OFFAINED OVER HANY YEARS ARE DESCRIBED. THE FOLLOWING TOPICS ARE D	80038 80038	502 503 504 505 506 507
	ISCUSSED: ACCUMULATION, AVERAGE THICKNESS AND	80038	504
	MELTING OF SNCW, DISCRIBUTION OF THE SNOW COV	80038	505
	ER ON ICE, REDISTRIBUTION AND FORMATION OF NEW	80038	506
	SUBFACE FORKS BY VIND, DENSITY AND SOME-PHYST	80038	507
	CAL AND CHEMICAL PROPERTIES OF SNOW. SNOW CHARACTERISTICS	80038 80038	508 701 702 611 101 102
	ARCTIC RESEARCH	80038	702
	80039	80039	611
	JAKOVLEV, A. A.	90039	101
	FADEEV, O. V.	<u> </u>	
	FIELD TESTING OF THE ICEBREAKER I. STALIN IN 1959.=	80039 80039	201 202
	PROBLEMY ARKT. I ANTARKT., 5, 1960. 1 P.	80039	251
	THIS IS A SHORT DESCRIPTION OF PERFORMANCE OF	82039	501
	THE RECONSTRUCTED ICEBREAKER STALIN. THE INFO	80039	502
	HMATION WAS USED IN MODERNIZATION OF OTHER ICE	80039	503
	BREAKERS. TRANSLATION OPTIONAL.	80039 80039	504 701
	I. STALIN ICEBREAKES	80039	702
	ICEBREAKERS, PERFORMANCE TESTS	80039	703
	PERFORMANCE TESTS, ICEBREAKERS	80039	704
	80043	80043	011
į	BORISENKOV, E. P. THE FIRST ALL-UNION CONFERENCE ON APPLICATIO	80043 80043	101
	N OF RADIOPHYSICAL METHODS IN OCEANOGRAPHIC AN	80043	201 ± 202 ±
	D ICE INVESTIGATIONS. (IN PRIMENENIE RADIOFIZ	80043	203
	ICHESKIKH METODOV, P. 7-9).=	80043	204 [
	ARKT. I ANTARKI. N.T. INSTITUT, LENINGRAD 1965	90043	251
	THIS IS A GENERAL ARTICLE ON THE PURPOSE OF THE CONFERENCE WHICH IS CONNECTED WITH A WIDE SY	80043 80043	501 <del>1</del> 502
	STEM OF OBSERVATORY STATIONS TO PROVIDE A CONT	80043	- 503
	INUOUS FORECAST OF ICE CONDITIONS IN THE POLAR	80043	504
	REGIONS.	80043	505
	ICA CONDITIONS FORECAST	80043	701
	ARCTIC RESEARCH 80044	80043 80044	702 to 1011
	BOGORODSKIJ, V. V.	80044	101
	RUDAKOV, V. N.	80044	102
	THE APPLICATION OF POLARIZATION AND INTERPER	80044	201 🖁
	ENCE OF ELECTROMAGNETIC WAVES IN DETERMINATION	80044	202
	OF SEA ICE THICKNESS. (IN PRIMENENIE RADIOFI	80044 80044	- 203 <b>1</b> 204 <b>1</b>
	ZICHESKIKH METOROV, P. 10-16).= ARKT. I ANTARKT. N. I. INSTITUT, LENINGRAD 196	80044	251 £
	5	80044	252
	THIS IS A DETAILED ARTICLE ON USE OF ELECTROMA	80044	501
	GRFTIC WAVES IN AERO-RECONNAISSANCE OF ICE CON	80044	502
	DITIONS, NAMELY IN ICE THICKNESS MASUREMENT.	80044	503 §
<del></del>	IT IS BYSED ON REFLECTION OF THE WAVES FROM THE ICE SURFACE AND ON MEASUREMENT OF CHANGES I	80044 80044	504
	N THEIR POLIRIZATION AND PHASE. OTHER SIMILAR	80044	506 S
	METHODS ARE COMPARED AND REVIEWED.	80044	505 506 507 701 011 101 201
	ICE PROPERTIES, FORECAST	800441	701
	80045	80045.	371
	RUDAKOV, V. N.	80' 45	101
	DEFECTOSCOPY OF SNOW AND ICE COVER BY ELECTR	80045	201 \$
		· · · · · · · · · · · · · · · · · · ·	
STATE	DOMENTATION OF THE PROPERTY OF		
•			
	The second secon	men Later and American Commence of the Commenc	

		·	
			<del></del>
ONAGNETIC WAVES. (IN PRIMENENIE I	RADIOFIZICHES	80045	20
KIKH METODOV, P. 17-20) .=		80045	20
ARKT. I ANTARKT., N. I. INSTITUT,	LENINGRAD 19	80045	25
65.		80045	2 <u>5</u> 3
THIS IS A SHORT DESCRIPTION OF A	E	80045	50
TERMINATION OF SIZE AND DENSITY OF ICE AND SNOW COVER. IT CAN DETECT		<u>80045</u>	50
AL FLAMS AND EXTERNAL CHANGES IN T		80045 80045	500 500
HOTOGRAPHS OR DEFECTOGRAPHS OF A C		80045	: 0:
Y BE READILLY COTAINED.	Dar Str. Hall R 11.A	800#5	500
ICE CHARACTERISTICS		80045	70
TESTING METHODS		80045	7 <u>0</u>
METHODS, TESTING		80045	70.
80046		80046	0.1
BOGORODSKIJ, V. V.		80046	10
RUDAKOV, V. N.		90046	16:
ELECTROMAGNETIC PARAMETERS OF SI	NUW, ICE, FRE	80046	20
SH AND SEA WATER. (IN PRIMENENTE SKIKH METODOV, P. 21-30).=	RADIOFIZICHE	<u>80046</u> 80046	20) 20
ARKT. I ANTARKT. N. I. INSTITUT, 1	PRINCERD 196	80046	25
5	La Indian 170	80046	25
THIS IS A DETAILED ARTICLE ON THE	TITLE TOPIC.	80046	50
THE ELECTROMAGNETIC PARAMETERS I	ARE MEASURED	80046	50:
AS A FUNCTION OF TEMPERATURE AND O	OF THE FREQUE	80046	50
NCY OF THE WAVES. THE RESULTS PRO		80046	50
FOR THE USE OF ELECTROMAGNETIC MI	ETHODS OF MEA	80046	<b>c</b> 0.
SURENENT IN ARCTIC RESEARCH.		80046	500
ARCTIC RESFARCH ICE CHARACTERISTICS		80046	70
SNOW CHARACTERISTICS		80046 80046	70: 70:
ICE CONDITIONS, FORECAST		80046	70
80047		80047	01
LOSHCHILOV, V. S.		80047	10
SHILNIKOV, V. I.		80047	10:
RECENT EXPERIENCE AND FUTURE US		80047	20
THODS IN ARRO-RECONNAISSANCE OF IC		80047	20:
. (IN PRIMENENIE RADIOFIZICHESKI)	KH METODOV, P	80047	203
. 31-35).= ARKT. I ANTARKT. N. I. INSTITUT, I	FUTUCDAL 106	80047	204
ARRY. I ANTARRY. N. I. INSTITUT, I	LLAINGRAD 170	80047 80047	25° 25°
THIS IS A SHORT DISCUSSION ON USE	OF RADAR IN	80047	50°
ICF OBSERVATION APPLICATIONS. TH		80047	50:
ACCURACY OF RESULTS ARE ESTIMATED.		80047	50:
LAR, THE FOLLOWING PARTIAL PROBLEM		80047	50
ERED: DENSITY OF BROKEN ICE, SHAP		80947	50
ES, SIZE OF THE FLOES AND ROUGHNES	SS OF THE ICE	80047	50
SURFACE.	2	80047	50'
ICE CONDITION PORFCAST		80047	70
ARCTIC RESEARCH		80047 80048	707
BOGOSLOVSKIJ, V. N.		80048	10
KUZNECOY, M. A.		30048	101
THE STRUCTURE OF RADIATION FLOW	ON THE SURFA	80048	20
CE AND THROUGH THE THICKNESS OF S	-	80048	20:
TRUDY SOV. ANTARKT. EKSPEDICII, 10	7, 1956-1958,	80048	25
P. 101-106		80048	25:
THIS IS A SHORT REPORT ON A HETHOL		80048	50° 50° 70° 70° 01° 10° 20° 25° 25° 50° 50°
OF EXPERIMENTAL FIELD INVESTIGATION		80048 80048	50:
TLE TOPIC. ALSO, A COMPUTATIONAL	BNA38400 TA		

The state of the second and the desired for the second second second second second second second second second

4 1			
-			
	SHOPPLY OUTLINED. VALUES OF REDIATION FLOW D	80048	504
	ISTPIBUTION ARE GIVEN.	<u> </u>	505
	ICE CHARACTERISTICS 80049	80048 80049	761 011
	CHERRIGOV, V. A.	80049	101
	KARTASHOV, S. N.	80049	102
	THE INFLUENCE OF RATE OF LOADING ON THE DEPO	80049	201
	RMATION OF SNOW. = -	80049	202
*********	TRUDY SOV. ANTARKT. EKSPEDICII, 10, 1956-1958,	80049	251
	P. 221-225	80049	252
	RESPONSE OF SHOW TO LOADS UNDER VARIABLE PATES	80049	501
	IS INVESTIGATED. IT IS SHOWN THAT THEFF IS A	80049	502
	RATE INDEPENDENT VALUE OF STRESS FOR ONSET OF	80049	503
	VISCO-PLASTIC VIELDING. RATE OF LOADING HAS A PRONOUNCED INFLUENCE ON THE CHARACTER OF VIE	80049	504
	LDING. SHILE THE RATE OF STRAIN HARDENING INC	8004 <u>9</u> 80049	505 506
	REASES WITH THE RATE OF LOADING, THERE IS ALSO	80049	507
•	A CHARACTERISTIC RATE (ABOUT 20 TO 30 PSI PER	80049	508
	MINUTE) WHICH DIVIDES THE SLIP DEFORMATION NO	80049	509
	DE OF SHOW CHYSTALS FROM THE HARDENING MODE WH	80049	510
	ICH IS CHARACTERIZED BY FREEZING OF INDIVIDUAL	80049	511
	CRYSTALS TOGETHER.	80049	512
	MECHANICAL PROPERTIES	80049	701
	SNOW CHARACTERISTICS	80049	702
	80051	80051	011
	VJALOV, S. S.	80051	701
+	CHERNIGOV, V. H.	80051	102
	THE STRESS STRAIN RELATION FOR ICE, AS A FUN	80051	201
	CTION OF TIME.= TRUDY SOV. ANTARKT. EKSPEDICIT, 10, 1956-1958,	80051 80051	202 251
	P. 249-255	80051	252
	AN EXPERIMENTAL STRESS-STRAIN RELATION IS DERI	80051	501
	VED FOR ICE. IT CONTAINS RATE DEPENDENT PARAM	80051	502
	ETELS. THERE IS A CRITICAL VALUE OF STRAIN, W	80051	503
	HICH IS RATE AND TIME INDEPENDENT AND CONSTANT	80051	504
	FOR A GIVEN TYPE OF ICE. EXTENSIVE YIPLDING	80051	505
	DEVELOPS AT LARGEP THAN CRITICAL STRAINS. THE	80051	506
	LINITING STRAIN VALUE CANNOT BE RELATED TO ST	80051	507
	RESSES IN A UNIQUE WAY, BECAUSE THE DYNAMIC EL	80051	508
	ASTIC MODULUS OF ICE IS NATE DEPENDENT. STRUC	80051	509
	FURAL CHANGES DURING DEFORMATION ARE BRIEFLY M	80051 80051	510
	ENTIONED.	80051	511 701
	ICE CHARACTERISTICS MECHANICAL PROPERTIES	80051	702
	80052	80052	011
	CHURNIGOV, V. A.	80052	101
	THE INFLUENCE OF CREEP, RLASTIC RECOVERY AND	80052	201
	RELAXATION ON ELASTIC PROPERTIES OF ICE.=	80052	202
	TRUDY SOV. ANTARKT. EKSPEDICII, 10, 1956-1958,	80052	251
	P.256-262	80052	252
	THE VELOCITY OF PROPAGATION OF ELASTIC LONGITU	80052	501
	DINAL WAVES IN ICE IN VARIOUS DEFORMATION STAG	80052	502
	ES IS MEASURED. THE PRESENT WORK IS AN EXTENS	80052	503
	ION OF REFERENCE 80050. AGAIN, FPEQUENCY INFL	80052	504
	URNCE IS NOT MENTIONED. IT IS CLAIMED THAT TH	80052	505
	E CRITICAL STRAIN WHICH DETERMINES THE LOAD CA	80052	506
	RRYING CAPACITY OF ICE MAY BE PREDICTED FROM T	80052	507 508
	HE PRESENT ABASUKEERNTS.	80052	ついだ!
	ICE CHARACTERISTICS	80052	701

CONTRACTOR OF THE PROPERTY OF

MECHANICAL PROPERTIES	0.1052	70:
80053	90052 89053	01
VIALOV, S. S.	80053	10
ON THE THEORY OF VISCOPLASTIC FLOW OF THE GL	80053	_20
ACIAL COVER.=	80053	26:
TRUD SOV. ANTARKT. EKSPEDICII, 10, 1956-1958,	P0053	25
P. 324-366	80053	25:
THIS IS A VERY EXTENSIVE AND DETAILED ARMICLE ON THE THEORY OF VISCOPLASTIC BEHAVIOR OF ICE	<u> </u>	<u>50</u>
SHIELDS. THE FLEMENTS OF THE VISCOPLASTIC ICF	80053 80053	50) 50)
BEHAVIOR ARE REVIEWED FIRST. THEN THE FLOW O	80053	50
F AN ICEBERG IS CONSIDERED FOR THE CASE OF KNO	80053	50
WN ICE PROPERTIES, INITIAL FORM OF THE ICEBERG	80053	50
AND SHAPE OF THE SUPPORTING GROUND. STRESSES	80053	501
AND VELOCITIES WITHIN THE ICE BODY ARE GIVEN.	80053	50
SOME EXPERIMENTAL MEASUREMENTS ARE REPORTED.	P0053	50
MECHANICAL PROPERTIES ICE CHARACTERISTICS	80053 80053	70 70:
80054	80054	C1
VJALOV, S. S.	80054	10
THE DEFORMATION LAWS OF ICE.=	80054	20
TRUDY SOV. ANTARKT. EKSPEDICII, 10, 1956-1958,	80054	25
P.329-248	80054	253
THE STRESS-STRAIN RELATIONS OF ICE WERE MEASUR	80054	50
ED IN COMPRESSION ON FREE AND CONTAINED SAMPLE	80054	50
S AND IN SHEAR. ALSO, HARDNESS MEASUREMENTS W ERE PERFORMED. THE RESULTS ARE RELATED TO TEM	<u>80054</u> 80054	<u>50</u> 50
PERATURE CHANGES AND TO STRUCTUPAL CHARACTERIS	80054	50: 50:
TICS.	80054	50
MECHANICAL PROPERTIES	80054	70
ICE CHARACTERISTICS	80054	70:
80055	80055	01
DRALKIN, A. G.	80055 80055	10° 20
THE FOURTH CONTINENTAL EXPEDITION, 1958-1960  GENERAL DESCRIPTION AND SCIENTIFIC RESULTS.	80055	20:
= GENGERE DESCRIPTION AND SCIENTIFIC MESSERS.	80055 80055	20
TRUDY SOV, ANTARKT. EKSPEDICII, 26, 1963	80055	25
THIS IS AN EXTENSIVE REPORT ON THE TITLE TOPIC	80055	50
. AN ENGLISH LIST OF CONTENTS IS ENCLOSED. O	80055	503
F INTERFST APE THE COPIES OF PAGES 113-118, RH	80055	50
ERE LABORATORY WORK ON ICE PROPERTIES IS REPOR	80055	504
TED. THIS DEALS WITH STUDIES OF FLASTIC PROPE	80055	<u>50</u> 1
RTIES OF ICE, DETERMINATION OF FLASTIC MODULUS OF VISCOSITY COFFFICIENT, OF SPECIFIC REIGHT	80055 80055	50: 50:
AND OF SOME OTHER PROPERTIES. THEN, ON PAGES	80055	50
210-215, GLACIOLOGICAL OBSERVATIONS ARE PREPO	80055	50
RTED. THOSE ARE RELATED TO THE MEASUREMENT OF	80055	51
DENSITY AND TEMPERATURE DISTRIBUTION IN THE S	80055	51
NOW AND ICE COVER.	80055	51: 70:
ICE CHARACTERISTICS	80055	70
MECHANICAL PROPERTIES	80055	70:
80056	<u>80056</u> 80056	90
TRESHNIKOV, A. F. SPECIAL FEATURES OF THE ICE REGIME OF THE SO	80056 80056	20
UTH POLAR OCEAN.=	80056	70° 70° 01° 10° 20° 25° 50° 50°
TRUDY SOV. ANTARKT. FKSPFDICII, 21, 1963.	80056	25
THIS IS AN EXTLINSIVE REPORT ON VARIOUS ASPECTS	80056	50
OF THE TITLE TOPIC. THE ENGLISH LIST OF CONT	80056	50
ENTS IS ENCLOSED. OF INTEREST ARE PAGES 34 TO	80056	50

	The state of the s		
	62 WHICH CONTAIN TUPOPHATION OF DRIFT OF SEA	80056	504
	TCF AND ICHOMOSS AND ON PROSTENT AND MECHANICA	87056	<u>505</u>
	L PROPERTIES OF CUF ANTARCTIC ICE. ALSO, 128	90056	506
	RUSSIAN AND PNGLISH PREFERENCES APR MINTIORED.  MECHANICAL PROPERTIES	<u>80056</u> 80056	5 <u>07</u> 701
	ICS CHAPACTARISTICS	80056 80056	702
	80057	80057	C 11
	GORDIENKO, P. A.	80057	101
	FEDOTOV, V. I.	80057	102
	SHILNIYOV, V. I.	80057	103
	ICE COVER NEAR THE SHORE OF EASTERN ANTARCTI	80057	201
		80057	202
	TRUDY SOV. ANTARKT. EKSPEDICIT, 11, 1960.	80057	251
	THIS IS AN EXTENSIVE REPORT ON VARIOUS ASPECTS	80057	501
	OF THE TITLE TOPIC. AN ENGLISH LIST OF CONTE	80057	502
	NTS IS ENCLOSED. OF INTEREST IS THE SECOND PA RT, PAGES 81-118 ON PHYSICAL AND MECHANICAL PR	90057	503 504
	OPERTIES OF ICE AND SHOP. IT CONTAINS A LARGE	8005 <b>7</b> 8005 <b>7</b>	504 505
	NUMBER OF EXPERIMENTAL OPSERVATIONS ON SEA IC	80057	506
	E AND ON GLACIFRS. IN PARTICULAR, THE STRUCTU	80057	500 507
	RE AND COMPOSITION OF THE SEA ICE IS STUDIED I	80057	508
	N DETAIL. THE LAYEVED STRUCTURE IS CLEARLY OU	80057	509
	TLINED AND THE PROPERTIES OF THE LAYERS GIVEN.	80057	510
	ICE CHARACTERISTICS	<u> 80057</u>	701
	MECHANICAL PROPERTIES	80057	702
	80058	80058	011
	NIKOLAEV, S. E.	80058	101
	ICE STUDIES.=	80058	201
	TRUDY SOV. ANTARKT. EKSPEDICII, 51, 1964, P. 101	80058	251
	-107	<u>80058</u>	252
	THIS IS A SHORT REPORT ON EXPERIMENTAL MEASURE MENT OF MECHANICAL PROPERTIES OF ICE IN BENDIN	80058 80058	501 502
	G. SAMPLES WERE TAKEN FROM VARIOUS DEPTHS OF	80058	503
	THE ICE COVER AT SEVERAL LOCATIONS AND TESTED	80059	504
	AT ABOUT -1 DEGREE CENTIGRADE. IT APPEARS THA	\$0058	505
	T THE STRENGTH IS CLOSELY RELATED TO STRUCTURE	80058	506
	AND THAT NO RELATION BETWEEN DEPTH AND STRENG	80058	507
	TH CAN BE ESTABLISHED.	80058	508
	MECHANICAL PROPERTIES	80058	701
	ICE CHARACTERISTICS	80058	702
	80059	80059	011
	SERIKOV, H. I.	80059	101
	SIRENGTH CHARACTERISTICS OF ANTARCTIC SEA IC	80059	201
	E.= TRUDY SOV. ANTARKT. EKSPEDICIT, 48, P. 190-193	80059 80059	202 251
	THIS IS A SHORT REPORT ON EXPERIMENTAL FEASURE	80059	501
_	MENT OF STRENGTH OF ICE IN SHEAR, COMPRESSION	80059	502
	AND OF ITS DYNAMIC HARDNESS. THE RESULTS ARE	80059	503
	PLOTTED AS FUNCTIONS OF TEMPERATURE AND THICKN	80059	504
	ESS.	80059	505
	ICE CHARACTERISTICS	80059	701
	MECHANICAL PROPERTIES	80059	702
	80060	80050	011
	SEFIKOV, M. I.	30060	101
	DENSITY AND SALINITY OF SEA ICE IN MIRNYJ AN	80060	201
	TARCTIC STATION.=	80060	202 251
	TRUDY SOV. ANTARKT. EKSPEDICIT, 48, 1964, P. 194	80060	251
	-195	80060	252 501
	THIS IS A SHORT ARTICLE OR THE TITLE TOPIC. T	80060	501

THE PARTY OF THE P

		<del></del>
HE DENSITY JAS WEASURED BY A HYDROSTATIC METHO	80060	50
 D (IN FRIOSTRE). BOTH PROPERTIES WERE MEASURE	80060	50
D IN INTERVALS FOR ALTOST A YEAR. IT APPEARS	80060	50
 THAT CONSTANT VALUES CAN BE OBTAINED IN RESPEC	80060	50
TIVE LAYERS OF THE ICE: IN THE SURFACE I FOOT	80060	50
 LAYER, IN THE POTTON 1 FOOT LAYER AND IN THE	80060	50
REMAINING INTERMEDIATE LAYER. SHARP DROPS OF	80060	50
 BOTH PROPERTIES ARE OBSERVED IN WINTER MONTHS.	80060	50
ICE CHARACTERISTICS	80060	70
 <u> </u>	80061	01
BELJAKOV, L. N.	80061	10
ON THE ERRORS OF THE ICE DRIFT MEASUPPMENT B	80061	20
 Y THE BPV CURRENT METER. =	80061	20
PROBLEMY ARKTIKI I ANTARKTIKI, 23, 1966, P. 41	80061	25
 -44	80061	25
THIS IS A SHORT APPICLE WHICH ATTEMPTS TO ESTA	80061	50
 BLISH THE ERRORS IN AUTOMATIC MEASUREMENTS OF	80061	<u></u> 50
THE VELOCITY AND DIRECTION OF THE ICE DRIFT.		50 50
 THESE CHARACTERISTICS ARE MEASURED WITH RESPEC	<u>80061</u>	
T TO THE POSITION OF THE WATER IN THE DEPTH OF	80061	50
	80061	50
	80061	50
 E ERRORS OF THIS METHOD ARE COMPARED WITH POSS	80061	<u> </u>
IBLE ERRORS OF ANOTHER METHOD WHICH IS BASED O	80061	50
 N ASTRONOMICAL MEASUREMENTS. BOTH METHODS GIV	80061	50
E SIMILAR ERRORS, PARTICULARLY FOR DRIFT VELOC	80061	51
 ITIES BELOW 5 M/SEC. FOR HIGHER VELOCITIES, T	80061	51
HE ERRORS DECREASE.	80061	51
 ICE CONDITIONS, FORECAST	80061	<u>70</u>
ARCTIC RESEARCH	80061	70
 80062	80062	<u>01</u>
LAVROV, V. V.	80062	10
 THE POISSON'S RATIO OF ICE UNDER STATIC LOAD	80062	26
ING.=	80062	20
 PROBELMY APKT. I ANTARKT. 26, 1967, P. 49-52	80062	25
THIS IS A SHORT REPORT ON EXPERIMENTS WHICH WE	80062	50
 RE PERFORMED TO ESTABLISH THE LIMITS OF VARIAT	80062	50
ION OF THE POISSON'S RATIO FOR ICE. THE VARIA	80062	50
 TION IS RATHET LAPGE, BOTH FOR TENSION AND COM	80062	50
PRESSION AND DEPENDS STRONGLY ON STRUCTURE. S	80062	50
OME RESULTS INDICATE THAT IN CEPTAIN CASES THE	80062	50
RATIO MEASURED HAS CLEASLY ARTIFICIAL MEANING	80062	50
WITH NO CONSEQUENCES FOR BEHAVIOR OF A CONTIN	80062	50
UUM. MEANINGPUL VARIATION SEEMS TO BE BETWEEN	80062	50
0.08 AND 0.45 BUT THE SCATTER APPEARS TO BE V	80062	51
 ERY LARGE.	80062	51
ICE CHAPACTERISTICS	80062	70
 MRAULUTALI NIAARRATTA	80062	70
80063	80063	01
 GORBUNOV, JU. A.	·	10
ON THE POSSIBILITY OF STUDIES OF ICE DRIFT C	80063 90043	20
 HARACTERISTICS WITH THE HELP OF AERIAL PHOTOGR	<u>80063</u>	
	80063	20
 PROPIEMY APROLET (1983) (1985) 28 1967 2 57-60	80063	20
PROBLEMY ARKT. I ANTAKKT, 26, 1967, P. 57-60	80063	25
 THIS IS A SHORT ARTICLE ON THE TITL: TOPIC. S	80063	<u>50</u>
EVERAL METHODS ARE DISCUSSED IN GENERAL TERMS	80063	50
 AND IT IS CONCLUDED THAT AERIAL PHOTOGRAPHY HA	80053	50
S CONSIDERABLE ADVANTAGES OVER OTHER METHODS,	80063	50
BASED ON LOCAL OBSERVATIONS.	80063	50
 ICE CONDITIONS, FORECAST	80063	70

STREET, STREET

ATORIA DESENDACIO	a draw have represent the part of the same and the same property of the state of th	80063	7
ARCTIC RESEARCH 80064		8,064	9
Karjain, O. R.		80064	1
ON THE PHYNOLDS NAMERS OF TROPE	I TOM.=	8006	2
PRODLINY ADAT. T ANYAPAT. 26, 1967		80054	2
THE MOTION OF THE SURVACE LAYER CO		82064	5
BROKER ICE FLORS IS CONSIDERED AS		80064	5
VISCOUS FLUID AUP AN IDEALIZED REY		P0064	5
	CODEL ENABLES	95064	5
TO STUDY BOTH THE GROSS FRATURES		<u>80064</u> 80064	<u> </u>
AND OF SHIP MOTION IN THE BROKEN ICE CHARACTERISTICS	145.	89064	5 7
ICE CONDITIONS, FORECAST		80064	7
80065		90065	i
NAZINCEV, JO. L.		80065	1
ON THE EQUILIBRIUM STATE OF POLI	VR TCE.=	80065	2
PROBLEMY ARKT. I ANTAFKT., 25, 196		80065	2
THIS IS A THEORETICAL ARTICLE ON		80065	5
UM ICH THICKNESS FOR GIVEN HEAT FI		80065	5
AND WATER. LONG TIME PREDICTIONS		80065	5
TED FROM KNOWN INITIAL CONDITIONS		89065	5
PROGNOSIS. THE RESULTS ARE OF INT	TEREST IN ICE	89065	5
CONDITIONS FORECAST PROBLEMS.		80065	5
ICE CONDITIONS, FORECAST		80065	7
ARCTIC RESEARCH		80065	7
ICE CHARACTERISTICS		80065	<u>7</u>
80066		80066	C 1
SERIKOV, M. I. INVESTIGATION OF PHYSICAL AND ME	CCINTCIL DEO	<u>80066</u> 80066	<u>!</u> 2
	SCHENICAL PRO	80066	2
PERTIES OF SEA ICE.= TRUDY SOV. ANTARKT. EKSPEDICI1, 20	1962 P 155	80066	<u>-</u> 2
-164	, 1902,21133	80066	2
THIS IS AN EXTENSIVE REPORT ON EXE	PERIMENTAL VA	80066	5
LUES OF DENSITY, SALINITY, STRENGT		80066	5
, SHEAR AND COMPRESSION AND, OF IS		80066	5
S AND OF ELASTIC CHARACTERISTICS C	OF SEA ICE.	80066	5
THE RESULTS WERE COLLECTED AT A NU	IMBER OF LOCA	80066	5
TIONS IN THE ANTAECTIC. SPECIMENS	WERE TAKEN	80066	5
AT VARIOUS DEPTHS OF THE ICE COVER		80066	5
TS DO NOT SHOW EXCESSIVE SCATTER A		80066	5
<b></b>	PABLES FACILI	83066	5
TATE THE SUR OF RESULTS.		89066	5
ICE CHARACTERISTICS		80066 89066	7 7
MECHANICAL PROPERTIES		89067	<u>′</u>
80067		9006 <b>7</b>	. 1
SERIKOV, M. I.  DENSITY AND SALINITY OF ANTARCTI	C SEA ICE.=	80067	<u>.</u>
BJULIETEN SOV. ANTARKT, EKSPEDICII		80067	2
P. 25-27	مستور و المستور و المستورة المستورة و	80067	2
THIS IS A SHORT ARTICLE ON EXPERIM	MENTAL RESULT	80067	5
S ON THE TITLE TOPIC. THE DENSITY	Y DISTRIBUTIO	80067	5
N APPEARS TO BE APPROXIMATELY CONS	STANT THROUGH	80067	5
THE THICKNESS EXCEPT FOR A SURFAC	CE AND A BOTT	80067	5
OM LAYER, WHERE IT DECREASES.		80067	5
ICE CHARACTERISTICS		80067	7
80069		80068	<u>0</u>
SERIKOV, M. I.		80068	1
MECHANICAL PROPPRTIES OF ANTARCS	FIC SEA ICE.=	80068 80068	2
BJULLETEN SOV. ANTARKT. EKSPEDICI:			

P. 23-27		80068	252
THIS IS AN ABREVIATED VERSION OF REPERENCE 800		80068	501
66.		89068	502
 ICE CHARACTERISTICS		80068	701
NECHANICAL PROPERTIES		80068	702
 80069		80069	011
SERIKOV, M. I.		80069	101
THE STRUCTURE OF ANTARCTIC SEA ICE.=		80069	201
BJULLETEN SOV. ANTARKT. EKSPEDICII, 39, 1963,		80069	251
 P. 13-14	•	80069	252
THIS IS A SHORT ARTICLE ON EXPERIMENTS WHICH W		80069	501
 ERE PERFORMED TO STUDY THE MICROSTRUCTURE OF I	<i></i>	80069	502
CE AT VARIOUS DEPTHS OF THE ICE COVER.	<u> </u>	80069	503
TCE CHARACTERISTICS		80069	701

CANDEN - APPROXIMATE SERVICES

		221
81001	81001	01012 1003 1003 1003 1003 1003 1003 1003
BERSHTEJN.V.A.	81601	101
ELIN. I.A.	81001	102
KO'LENKINA . T. A.	81001	103
EPUXY COATINGS FOR CORROSION PROTECTION OF S.	81001	201
HIPS STRUCTURAL PARTS.=	81001	202
SUDOSTROENIE, 27, MAY 1961, PP. 41-45	81001	251
VARIOUS EPOXY COATINGS, THEIR MECHANICAL PROPE	81001 .	501
RTIES, ADHESION CHARACTERISTICS AND OTHER TECH	81001	502
NOLOGICAL DETAILS ARE DESCRIBED. SOME TEST ME	81001	503
THODS OF THESE PROPERTIES ARE MENTIONED. SPEC	81001	504
IAL ATTENTION IS GIVEN TO TECHNOLOGY OF APPLIC	81001	505
ATION AND TO EXPERIENCE OBTAINED DURING USE OF	81001 .	506 g î
COLD CURED MULTI-LAYERED REINFORCEDI COATINGS	81001	507
ON SOME SHIP PARTS LIKE SHAFTS, PIPING, PUMPS,	81001	508
PROPELLER BLADES AND SHAFTS, ETC. SOME REFER	81001	509·
ENCE TO AMERICAN TECHNIQUES IS GIVEN. TRANSLA	81001	510
TION OPTIONAL.	81001	511
CORRUSION PROTECTION	81001	701
PROTECTION, CORROSION	81001	702
COATINGS	81001	703
81002	81002	010
ME'NIK, M.I.	81002	101
SHILNIK.M.N.	81002	102
A NEW PROTECTIVE COATING FOR METAL SURFACES.	81002	201
	81002	202
SUDOSTROENIE, 25, JUN 1959, PP. 30-32	81002	251
THE PROTECTIVE COATING DESCRIBED IS BASED ON A	81002	501
PERCHLORVINYL RESIN WHICH IS A PVC RESIN ENRI	81002	. 502
CHED BY 64-65 PER CENT OF CHLORINE. IT IS STA	81002	503
BLE FROM -45 DEGREE C TO +170 DEGREE C (1.E	81002	504
49 TO +338 DEGREE F), EASY TO APPLY, HAS EXCEL	81002	505
LENT PROTECTIVE PROPERTIES, REASONABLE STRENGT	81002	506
H AND OTHER PROPERTIES SUITABLE FOR ITS USE FO	81002	507
R CORROSION PROTECTION OF WELDED SHIP HULLS.	81002	508
THE TECHNOLOGY OF APPLICATION AND OTHER IMPORT	81002	509
ANT DATA ARE DESCRIBED IN DETAIL. TRANSLATION	81002	. 510
OPTIONAL.	81002	511
CORRUSION PROTECTION .	81002	701
PROTECTION, CORROSION /	81002	702
COATINGS	81002	703

D D

	CONDUCTOR DUODER TO NO		
	CORROSION PROTECTIONPROTECTION, CORROSION	81654 83664	701 701
-	81905	81005	01
	SUPRON, L. A.	81005	10
	BARDINA, V. P.	81005	10:
	INVESTIGATION OF ORMIC RESISTANCE OF A PROTE	<u>81005</u>	21
	CTIVE COATING. =	81005	20
	TRUDY C.N.I.I. NORSKOGO PIOTA, 57, 1964, P. 37	81005	<u>25</u>
	-42	81005	25
	THIS IS A DETAILED DESCRIPTION OF NUMPPOUS EXP ERINENTS ON DETERMINATION OF OHMIC RESISTANCE	31005 81005	50 50
	OF PROTECTIVE CONTINGS AS A FUNCTION OF THE SI	8:005	50.
	ZE OF PROTECTED SURFACE, IN SEA WATER. IT IS	81005	50
	FOUND, THAT THE LOGARITHYS OF BYSTSTANCE DECRE	81005	50 50
	ASES LINEARLY RITE THE LOGARITHM OF FIZE OF TH	81005	50
	E PROTECTED AREA. THE RESULTS ARP USED IN ANA	81005	50
	LYSIS OF ELECTROCHEMICAL PROTECTIVE SYSTEMS OF	81005	۲Ü
	SUBMERGED PARTS OF SHIP HULLS.	81005	50
	CORROSION PROTECTION	81005	76
	PROTECTION, CORRUSION	81005	70
	COATINGS	81005	70
_	CATHODIC PROTECTION	81005	70
	PROTECTION, CATHODIC	81005 81005	70 01
	81006 BERSHTEJN, V. A.	81006	10
	KRASI SHCHIKOVA, B. L.	81006	10
	MATVEEV, V. M.	81606	10
	RYT, E. SH.	81006	10
	KHEJFEC, G. M.	8100€	10
	PAINTS FOR PROTECTION OF THE SUBMERGED PART	81006	20
	OF SEA SHIP HULLS FROM CORROSION AND FCULING.=	81006	20:
	TRUDY C.N.I.I. MORSKOGO FLOTA, 25, 1959, 2. 31	81006	25
	72	81006	25
_	THIS IS AN EXTENSIVE AND VERY DETAILED DESCRIP	<u>81006</u>	50 50
	TION OF NUMBROUS EXPERIMENTS WHICH WERE PERFOR MED BY THE AUTHORS BETWEEN 1952 AND 1958 ON PR	81006 81006	50 50
_	OTECTIVE PROPERTIES OF VARIOUS COATINGS IN SEA	81006	50
	WATER. THE EXPERIMENTS INCLUDE OBSERVATIONS	81005	50 50
-	BOTH ON SHIPS AND ON SPECIMENS. IT IS CONCLUD	81005	50
	ED THAT VINYL-EASED AND ETHYNOL-BASED COATINGS	81006	50
	HAVE THE MOST DESIRABLE PROPERTIES. COMPARIS	81006	50
	ON WITH COATINGS USED IN OTHER COUNTRIES IS MA	81006	50
	DE AND ECONORY CONSIDERATIONS ARE EMPHASIZED.	81006	51
	APPLICATION PROCEDURES ARE DESCRIBED IN DETAIL	81006	51
	L.	81006	51
	CORROSION PROTECTION	81036	<u>70</u>
	PECTECTION, CORROSION	8100€ 9.00€	76 70
_	PAINTS	<u> </u>	70
	COATING 81007	81007	01
	KHEJFEC, G. M.	81007	10
	PAINTS FOR SHIP DRITTING WATER TANKS.=	81607	
	TRUDY C.N.I.I. MORSKOGO FLOTA, 25, 1959, F. 87	81007	20 25
	-94	81007	25
	THIS IS A DETAILED EXPERIMENTAL DESCRIPTION OF	81007	25 50
	FXTENSIVE INVESTIGATIONS OF SUITABLE PAINTS F	81007	50 50
	OR DRINKING WATER TARKS. BOTH THE INFLUENCE O	81007	50
	N QUALITY OF WATER AND CORPOSION BYSICTANCE HE	81007	<u>50</u> 50
	RE EVALUATED. AMONG MANY TYPES TESTED, A POLY	81007	50

The second secon

the second secon

	TER PAINT LASID OF CHLORVINYL AND VINYL-DENCHL	81007	506
	DRIDG WAS MANUFORD OF MORE SUITABLE. CORSOSION PRODECTION	<u>81007</u> 81007	50° 70°
	PROINCTION, COSTOSION	81007	70
	PAINTS	81007	70:
	21008	81002	01
	LIZAROV, T. R.	81008	101
	NEW SPECIFICATIONS ON PATITURE OF STIES, ISS FED BY THE MINISTRY OF THE NAVY OF THE U.S.S.R	<u>81008</u> 81008	<u>201</u> 201
	= contract of the the the the property	81008	202
	RUDY C.N.1.I. MOPSKOGO FLOTA, 25, 1959, P. 95	81008	- 25
	.99	81008	252
	THIS IS A SHORT DESCRIPTION OF THE TITLE SPECI	81008	501
	TCATIONS. IT TOUTHING THE RAIN RECOGRETOR T	81009	<u>50:</u>
	PES OF PAINTS FOR VARIOUS PURPOSES AND THE TE	81008 81008	503 504
	WATER AND UPPER PARTS ARE GIVEN.	8 10 0 8	509
	SHIPS, SPECIFICATIONS	81008	70.
	SPECIFICATIONS, SHIPS	31008	70:
	AINTS	81008	707
	ORDOSION PROTECTION PROTECTION, CORPOSION	81008 21008	70! 70 <b>:</b>
	1009 ' COSPOSION	81000	01
	BERIUS	81009	10.
	CATHODIC PROTECTION OF SHIPS BY PURE ZINK AN	81009	20
	nrs.=	81009	203
	SCHIFF UND HAFEN, FOB 1961, P. 157-162	81009	251
	THIS IS A SUMMARY OF A LECTURE OF VARIOUS PRAC MICAL ASPECTS OF CATHODIC PROTECTION. IN PART	<u>81009</u> 81009	501 502
	COULD, SPECIAL ARTANGERSMES APE DISCUSSED. A	81009	50
	DISCUSSION TO THE LECTURE IS ATTACHED.	81009	504
	CRESONION PROTECTION	81009	70
	PROTECTION, CORROSION	81009	702
	ATMODIC PROTICTION PROTECTION: CATHODIC	81009 61009	<u>793</u> 764
	31010	81010 81010	011
	IOWAK, W.	\$1010	10
	COPPOSION AND CORROSION PROTECTION OF SHIPS.	81010	-201
•	:	81010	202
	CHIFFPAUTFCHNIK, 9, AUG 1956, P. 410-416 THIS IS RATHED A GENERAL ARTICLE ON VAPIOUS AS	<u>81010</u> 81010	25° 50°
	PECTS OF CORROSION IN AN ELECTROLYTE, F.G., SF	81010	502
	ANAMER. METHODS OF COSROSION PROTECTION, INCL	81010	503
	DING CATHODIC PROTECTION ARE OUTLINED.	81010	508
(	ORROSION PROTECTION	81010	70
	PROTICTION, CORPOSION	<u>81010</u>	70:
{	ATHODIC PAOTECTION	81010	703
	PROTECTION, CATHODIC	<u>81010</u> 81011	701 011
•	ABFRENZ, A.	81011	10:
	COOFERATION OF THE BASIC COATING AND OF THE	81011	201
	POISON PAINTS IN PROTECTION OF THE SHIP BOTTOM	81011	20:
	,=	81011	200
	SCHIFF UND HAPPY, JAN 1962, C. 66-76	<u> </u>	25
	THIS IS AN EXTENSIVE AND DETAILED DISCUSSION O	81011	50 50
	FINTERACTION OF ARTICOSPOSIVE AND ARTIFOULING PAINTS FOR PROTECTION OF SHIP HULLS. IT IS S	81011 81011	50. 50:
	IONN THAT THE POISON PAINTS I CAUSE CORROSIO	81011	50: 50:
	I IF THE PAUL ANTECOPROSIVE ( TING IS WEAK,	81011	50
	•		

\$....

<b>b</b> -	THEREFORE THE CONCLUSION IS REACHED THAT BOTH	91011	507
	CORPONENTS AUST AF SUFFICIENTLY STLONG FOR AC	81011	507
	HIEVEMENT OF GOOD RESULTS.	a1011	508
D_	CORRESTON PROTECTION	91011	761
e co	PROTECTION, CORROSTON	81011	702
·	COATINGS	91011	703_
D	PAINTS	61011	704
1	91012	81012	0.11
	KHOPERIYA, T. N.	81012	101
P_	PRVICE FOR DETERMINING THE ELASTICITY OF COA	<u>81012</u>	201
i .	TINGS.=	81012	202
· L	INDUSTRIAL LABORATORY, 26, FRB 1960, F. 243-24	R 16 12	251_
P	4	81012	252
.	THIS IS A SHORT PESCEIPTION OF A TESTING DEVIC	91012	501
	E FOR DETERMINATION OF ELASTICITY OF GALVANIZE	81012	502
P	DING. IN ENGLISH.	81012	<u>503</u>
	COATINGS	81012	504
<b>5</b> –	81015	<u>81012</u>	701
7	POPERPKA, M. JA.	81013 81013	611 101
.	DEVICE FOR TESTING THE WEAR OF THIN LAYERS U	81013	201
b	NDER RECIPROCATING MOTION CONDITIONS. =	81013	201
<b>7</b> —	INDUSTRIAL LABORATORY, 29, SEP 1963, P. 1239-1	81013	251
-	240	81013	252
ာ —	THIS IS A SHOPI DESCRIPTION OF THE TITLE DEVIC	81013	501
Γ	E WHICH CAN BE USED FOR PAIRLY EXACT MEASUREME	81013	502
. —	NTS OF WEAR OF VARIOUS DEPOSITED LAYERS, UNDER	81013	503
<u>ن</u> زن	RECIPROCATING MOTTON.	81013	504
–	COATINGS	81013	701
·	<sup>3</sup> -81014	91014	<u>911</u>
Ð	HILL, F. W.	81014	101
,	CONDITIONS CAUSING GALVARIC CORROSION.=	81014	201
·L	SCHIFF UND HAZIN, 10, JAN 1958, P. 29-39	81014	251
. P	THIS IS A DETAILED AND EXTENSIVE ARTICLE ON SE	81014	<u>501</u>
	VERAL FACTORS WHICH CONTRIBUTE TO CORROSION OF	81014	502
	SHIP HULLS. THREE MAIR TOPICS APE PISCUSSED:	81014	<u>503</u>
<b>b</b> _	THE CONTRIBUTION OF SURFACE CONDITIONS, NAME	81010	504
:	LY OF THE AS-ROLLED SURFACE AND OF THE SURFACE HETEROGENEITY OF SHEED STEEL SURFACES. THE I	81014	505
	NFLUENCE OF OUTSIDE CURRENTS WHICH MAY BE PROD	81014 81014	506 507
۳_	UCED WHEN THE SHIP BECOMES AN ANODE AGAINST EA	51014 51014	508
	RTH. FINALLY, THE INFLUENCE OF CURRENTS GENER	81014	500 §
0	ATED ON THE SHIP AND TRANSMITTED IN TO THE HUL	81014	510
	L THROUGH GROUNDING. PESULTS OF OBSERVATIONS	81014	511
1	ON STIES ARE REPORTED TO ILLUSTRATE THE THREE	81014	512
8	CASES. PREVENTION MYASURES ARE DISCUSSED.	81014	513
1	CORROS 10 N	81014	701
	CORROSION PROTECTION	31014	702
0	PROTECTION, CORLOSION	81010	703
1	COMPOSION RESISTANCE	81014	704
	RESISTANCE, CORROSION	81014	705
Ø	81015	31015	001
]	CRISTEA, S.	1015	101
I	MAPCU, P.	81015	102 §
0	CONTRIBUTION TO THE STUDY OF ANTICORROSIVE P	81015	201
<u> </u>	ROTECTION OF VOLITA STRELS, USED IN SPIPBUILDI	81015	<u> </u>
	NG.=	81015	203 2
ອ	THIRD INTERNATIONAL CONGPLSS ON AFTAILIC CORRO	81015	351
1.00	SION. EXTENDED ABSTRACTS, MOSCOW, 16-25 HAY 1966,	81015	352 💈
Ė		· .	
(D)			

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Some a distribution of the entire the same of the color of the books of the color of the

P. 241-243		31015	35
	STRACT OF THE TIME PAPER	81015	50
	US ANTHOOS OF CUPPOSION P	81015	50
	D STEEL DANTS DURING SHIP	81015	50
CONSTRUCTION IN THE	SHIPYARD.	81015	50
CORNOSION		81015	7.0
PAINTS		81015	70
CORROSION PROTECTION	A100	81015	70
PROTECTION, CURROSIGN		81015	70
81016		91016	00
CORNET, I.		81016	10
KALOO, U.		81016	10
	OCITY EFFECTS ON THE CAME	81016	20
	STEEL DISC FORATING IN SA	81016	20
LT WATER. =		81916	20
	ONGRESS ON METALLIC CORPO	81016	35
	TS, MOSCOW, 16-25 MAY 1966,	81016	35
P. 212-214		81016	35
	STRACT OF THE TITLE PAPER	81016	50
. IT DESCRIBES TESTS	PEPPORMED WITH A POTATIV	<u> 91^16</u>	50
	DIAMETER, TO DETERMINE TH	8 10 1 6	50
	H COMPLETE CATRODIC PROTE	81016	50
	S OF CHANGING TEMPERATURE	61016	50
	PEACENT SODIUM CHLORIDE S	81016	50
OLUTION.		81016	50
CORROSION PROGRAMMENT		81016	70
CORROSION PROTECTION		81016	70
PROTECTION CORROSION CATHODIC PROTECTION		<u>81016</u>	70
PRGTECTION, CATHODIC		81016	70
81017		81016 81017	
IOSSEL, JU. L.	`	81017	10
	CULATION AND MODELING OF	81017 81017	20
	ELECTROCHEMICAL PROTECTI	81017	20
ON OF METALS IN SALT.		8 10 17	20
	ONGERSS ON AFTALLIC CORPO	81017	35
	TS, MOSCOW, 16-25 MAY 1966,	81017	35
P. 209-211.		8101	35
	STRACT OF THE TITLE PAPER	81017	50
•		81017	50
CORROSION		81017	70
CGRROSION PROTECTION		81017_	70
PROTECTION, CORROSION		81017	70
81019		: 1018	00
KADANER, L. 1.		81018	10
	FIRLDS OF CORROSION SYSTE	<u>81018</u>	20
XS.=	•	81019	20
	ONGRESS ON METALLIC CORPO	81018	35
	TS, MOSCOW, 16-25 MAY 1966,	81018	35
P. 211-212.		81018	35
THIS IS AN ENGLISH AC	STRACT OF THE TITLE PAPER	P1018	50
a of the same of t		81018	50 70
CORROSION		81018	70
CORRUSION PROTECTION		81018	70
PROTECTION, CONJUSION		81018	70 70 70
CATHODIC PROTECTION		81018	17:
PROTECTION, CATHODIC	<del></del>	81018	70
81019		81010	00 10
GLICHAN, L. A.		81019	10

ж.	STFOY, E. H.	31619	1 2 3
• • •	CATHODIC PROTICTION OF STIFE AS CYCLIC LOADS	21019	· ;
1	N SFA WATER	81019	2
	TED INTERNATIONAL CONGRESS ON REMARLIE CORPO	81010	
	ON.EXTERDAD AUSTRACTS, MOSCOW, 16-26 MAY 1966,	81610	3
	208-209.	81019	·
	IS IS AN ENGLISH ABSTRACT OF THE TITLE PARTY	81619	
	IT IS SHOWN THAT THEN OPTION CATHOLIC PROS	81010	G
EC	TION CONDITIONS THE APPLIED, THE FATIGUE STR	8 10 19	·
E	GTE OF SOME STEELS IN SEC WATER MAY BE IMPRO	81619	5
	D TO THE LEVEL WHICH IS OBSERVED IN AIR. HE	81019	5
	IANISK OF THE PHEYONUNON TO DISCUSCED.	81019	5
	DRROSION	81019	7
	TIGUE TESTING	81010	7
	STING, FATIGUE	81019	7
	DRROSION PROTECTION	81019	7
	OTECTION, COSROSION	81019	7
	THODIC FROTECTION	81019	7
	OTECTION, CATHODIC	81019	7
	020	81020	
	RKHADOV, A. A.	81026	1
	SPECIFIC FEATURES OF CORROSTON OF SEA STEEL	81020	2
S	RUCTURES AND ELECTROCHESICAL PROTECTION OF T	81020	2
HI	SE STRUCTURES.=	8102 <u>C</u>	2
TI	IRD INTERNATIONAL CONGRESS ON METALLIC CORRO	81C20	3
	ON. EXTENDED ABSTRACTS, MOSCOW, 16~26 MAY 1966,	8102C	3
Ρ.	201-203.	81020	3
TI	HIS IS AN ENGLISH ABSTRACT OF THE TITLE PAPER	81020	
•	RESEARCH WAS PERFORMED IN THE DEVELOPMENT O	81020	5
	ELECTROCHEMICAL PROTECTION AGAINST COPROSTON	P102C	5
	IN SEA WATER (EVEN AT HIGH VELOCITIES OF FLOW	81020	5
	BY MEANS OF GENERATION A SURFACE PROTECTIVE	81620	5
	LX.	81020	5
	DRROSION	81020	
	DRROSION PROTYCTION	81020	?
	OTECTION, CORPOSION	81020	7
	THODIC PROTECTION	81020 41020	7
	OTECTION, CATHODIC	<u>41020</u>	7
	PATINGS	81025	7
	1021	<u>81021</u> 81021	<u>C</u>
	MANSKIJ, A.		1 _ 1
	GOTKO, V.	81021 81021	<u>-</u> 1
ນເ	INFLUENCE OF CATHODIC PROTECTION ON SHIP PAI	81021	2
<b>17</b> 0	PRINCIPLE OF CATROLIC PROTECTIVE ON SALE PRINCIPLE BY MEANS OF THE SYSTEM "ELKOR" ON SHIP BOTT	31ú2;	<u>2</u>
	PAINTS.=	81021	2
	HIPD INTERNATIONAL CONGRESS ON METALLIC COPRO	81021	<u></u>
	ON EXTENDED ABSTRACTS, MOSCOF, 15-23 BAY 1966.	81021	3
	199-200.	81021	
	HIS TO AN ENGLISH ABSTRACT OF THE TITLE HAFER	81021	5
	AND TO BO PROCESS ASSETTACE OF THE ILLIA FALLS	81021	<u></u>
117	RROSION	81021	-: 7
	ORPOSION PROTECTION	81021	7
	OTECTION, CORROSION	81021	7
	THOUIC TOTECTION	81021	<u></u>
	OTECTION, CATHODIC	£1021	7
	ATINGS	37021	3 5 7 7 7 7 7 7 7 7 0
	102 <i>2</i>	81022	'n
		11 7 4 4 6	

OLICENTS: Y, CI.	81622	102
 COMPLYX PROPERTIES OF SUPPLEMENTALE	81022	<u> 201</u>
THIRD IN THE WAR TOTAL COLGRESS OF FATELIE CORPO	81022	351
 SION. EXTENDED ASS. NACES, NOSCOT, 10-26 TAY 1960	<u>81022</u>	<u>352</u>
	81022	353
 THIS IS AN ENGLISH ARDEDACT OF THE TIME PAPER.  • REJULIS ARE REPORTED ON INVESTIGATION OF THE	30.72	5/1
TIMES CONSINATION OF PARAMETERS OF CIT LOTE OF	8100	502 503
 ONECTION AND PROTECTIVE CONTINGS.	<u>91622</u>	
CORPORATE AND ENGLISHED CONTRACT.	11.22	50.1
 CORROSION PROTECTION	81022 8122	<u> </u>
_PHORECTEON, CORROSION		
 CATAORIC FROTECTION	F1 /7 -	<u>763</u> 704
PROTECTION, CATHODIC	81022	· ·
 CONTINGS	8:622	701
81023	61032	706
 SCHIFFBAUTFCHMISCHE GESELLSCHAFT	81023 81023	011
COPROSTOR AND FOULING PAFFENGION WESTANC".=	31023	110
SCHIFF UND HAFEN, AP. 1957, 2. 314-120	81623 01493	251 501
 THIS IS A RAPORT ON A MUETICA OF THE GIVEN	91,793	<u>501</u>
	61023	502
 SHIPBUILDING SOCIETY, WHICH TOOK PLACE IN NOVE	81023	<u> 503</u>
MBER, 1950. IT CORPAINS ALSO TWO LECTURES. C	81023	504
 NE, ON PARAGE BY ELECTFOLYSIS OF SHIP BOTTOYS	<u>81023</u>	<u>505</u>
DURING ELECTRIC WELDING AND ANGTHER ONE, ON PR	81023	506
 EVENTION OF CORROSION OF SHIP BOILD'S, ON MEAS	<u>81023</u>	507
URES TO LEFEST THE COEROSION PROCESS AND TO RE	81023	508
 PAYR THE DAMAGE.	<u>81023</u>	<u>509</u>
CORROSION DECEMBER	81023	701
 CORROSION PROTECTION	<u> </u>	702
PROTECTION, CORROSION 81024	81023 81024	763 611
 SCHIFFBAUTECHNISCHE GESELLSCHAFF	81024	110
	_	710 261
 COTROSION AND FOULING PREVENTION RESPARCE. =	<u>81024</u> 81024	
SCHIFF UND HAFEM, PEB 1963, P. 182-185 THIS IS A REPORT ON A MEETING OF THE CORPOSION	81024	501
 AND FOULING RESEARCH COMMITTEE OF THE GERMAN	81024	502
	81024	502 503
 SHIPRUILDING SOCIETY, WHICH TOUT PLACE IN MOVE		564
MBER 1959. IT ALSO CONTAINS A LECTURE BY H. K	81024	504 505
 UEL ON "POSSIBILITIES AND LIMITATIONS OF FOULT	<u>81024</u> 81024	505 506
NG PROTECTION BY PAINTS." ATTENTION IS GIVEN TO DET POISONED PAINTS AS A MEANS OF FOULING	31024 81024	507
	81024	508
PREVENTION.	81024	701
 CORROSION		702
CORROSION PROTECTION	81024 81024	703
 PROTECTION, CORROSION		
81025	81025 81025	011 301
 BAUTER, F.	81025	102
ENGELL, 2. J. INVESTIGATION ON CORROSTON PROTECTION BY KEN	81025 81025	201
 NS OF ZINC PLATES ON STERN OF SEA SHIPS.=	81025	202
SCHIFF UND HAFEN, FEB 1960, P. 185-189	81025	35 <u>1</u>
 THIS IS PROTRED LECTURE UNICE WAS DELIVERED AT	81025	501
A REETING DESCRIPED IN 81024. 8FASURFYFRTS W	81025	50 I
ERE PERPORMED ON EFFICIENCY OF ZINC ANODES AS	81025	2112 E 0 2
		503
 - x - n v nor - n n - n n n n n n n n n n n n n n n	5 44/ 12	2.75
 A PART OF CATHODIC PROTECTION OF AN OTHERWISE	81025 91025	504
 UNPROTECTED SHIP HULL DURING A LONGER NAVIGATI	81025	504 505
		502 503 504 505 506 507

en statiski skrivitiski sat XIII is en statiski skrivetova. A deženik a sočenska skrivitski statiskosti na skrivitsk Sprivateliki sat XIII is en statiski skrivetova skrivitski skrivetova skrivitski sočenska skrivitski skrivetov

DATE TARE SECURITY OF THE SECOND SECO	91025	
ROTECTION SYSTEM OUTLINED.	91025	
CORROSION PROSECTION PROTECTION, CORPOSION	8 10 25	
CATHODIC PROTECTION	81025	•
PROTECTION, CATHODIC	P 1025	
81026	8 10 2 5 8 16 2 6	
HASBACH, E.	51026	
CURROSION OF SEA SHIP PROPELLERS NAME OF COP	81026	
PER ALLOYS AND ITS PREVENTION BY CATHODIC PROT	81026	
ECTION.=	81026	
SCRIFF UND HAFEN, SEP 1957, P. 747-751	81026	
THIS IS A SHOAT DESCAIPTION OF TREETENTS ON	81026	
CORROSION RESISTANCE OF LARGE BRASS PROPELLERS	81026	
UNDER THE INFLUENCE OF CATHODIC PROTECTION.	81026	
OPTIMUM ARRANGEMENT OF THE PROTECTION IS DISCU	81026	
SSTD. ALSO, OTHER EXPERIMENTS ARE REPORTED, N	81026	
	81026	
AMELY ON ALUSINUM BRONZE PROPELLERS.	81026	
CORROSION PROTECTION PROTECTION, CORROSION	8 10 2 6	
·	81026	
CATHODIC PROTECTION PROTECTION, CATHODIC	81026	
PROTECTION, CATRODIC PROPELLERS	81026 81026	
PROPELLERS, DAMAGE	81626	
· · · · · · · · · · · · · · · · · · ·	\$1926 \$1926	
DAMAGE, PROPELLERS 81027	81027	
	81027	
VOSSNACK, E.	81027	
VISSCHIR, J. H.	81027	
CORROSION REFECTS AND CATHODIC PROTECTION OF	81027	<del>~</del>
SHIP ACTION.=	81027	
THIS IS AN EXTENSIVE SUMMARY IN GERMAN OF A DU	81027	
TCH ARTICLE. IT DESCRIBES A SYSTEM OF CATHODI	81027	
C PROTECTION WHICH USES A ANODE ALUMINUM WIRE	31027	
WHICH IS PULLED BEHIND THE SHIP. THE CUPRENT	81027	
	81027	
WHICH IS PED INTO THE WIRE GENERATES A POTENTI	81027	
AL FIELD BETWEEN THE WIRE-ANGUE AND THE SEIP C ATHODE. DETAILS AND DARAMETERS OF THE METHOD	81027	
	81027	
ARE DISCUSSED.  CORROSION PROTECTION	81027	
	81027	
PROTECTION, CORROSION  CATHODIC PROTECTION	81027	
PROTECTION, CATHODIC	81027	
ENGLECATOR, CALIFORNIC	0.1021	
		<del></del>
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VYSOCKIJ A. A.   81003   11	SUPRUN, L. A.  BARDINA, V. P.  VYSOCKIJ, A. A.  MODEL INVESTIGATIONS OF ELECTRO-CHEMICAL PRO TECTION OF SEA SHIP HULLS AGAINST CORROSION AN  D DETERMINATION OF THE INPLUENCE OF THE PROPEL LER ON WORK REGIME OF THAT PROTECTION.=  TRUDY C.N.I.I. MORSKOGO FLOTA, 57, 1964, P. 3- 25	81003 81003 81003 81003 81003	011 101 102 103 201
NAME	BARDINA, V. P.  VYSOCKIJ, A. A.  MODEL INVESTIGATIONS OF ELECTRO-CHEMICAL PRO  TECTION OF SEA SHIP HULLS AGAINST CORROSION AN  D DETERMINATION OF THE INPLUENCE OF THE PROPEL  LER ON WORK REGIME OF THAT PROTECTION. =  TRUDY C.N.I.I. MORSKOGO PLOTA, 57, 1964, P. 3-  25	81003 81003 81003 81003 81003	102 103 201
WISOCKIJ, A. A.   #1003   12	VYSOCKIJ, A. A.  MODEL INVESTIGATIONS OF ELECTRO-CHEMICAL PRO TECTION OF SEA SHIP HULLS AGAINST CORROSION AN  D DETERMINATION OF THE INPLUENCE OF THE PROPEL LER ON WORK REGIME OF THAT PROTECTION. =  TRUDY C.N.I.I. MORSKOGO PLOTA, 57, 1964, P. 3- 25	81003 81003 81003 81003	103 201
HODEL INVESTIGATIONS OF ELECTRO-CHERICAL PRO	MODEL INVESTIGATIONS OF ELECTRO-CHEMICAL PRO TECTION OF SEA SHIP HULLS AGAINST CORROSION AN  D DETERMINATION OF THE INPLUENCE OF THE PROPEL LER ON WORK REGIME OF THAT PROTECTION.= TRUDY C.N.I.I. MORSKOGO FLOTA, 57, 1964, P. 3- 25	81003 81003 81003	201
TECTION OF SEA SHIP HULLS AGAINST CORROSION AN   A1003   20	TECTION OF SEA SHIP HULLS AGAINST CORROSION AN  D DETERMINATION OF THE INPLUENCE OF THE PROPEL  LER ON WORK REGIME OF THAT PROTECTION. =  TRUDY C.N.I.I. MORSKOGO FLOTA, 57, 1964, P. 3-  25	81003 81003	
DETERNINATION OF THE INPLUENCE OF THE PROPEL   81003   22	D DETERMINATION OF THE INPLUENCE OF THE PROPEL  LER ON WORK REGIME OF THAT PROTECTION. =  TRUDY C.N.I.I. MORSKOGO PLOTA, 57, 1964, P. 3-  25	81003	7/1
LER ON WORK REGIME OF THAT PROTECTION.	TRUDY C.N.I.I. MORSKOGO PLOTA, 57, 1964, P. 3-		202
TRUDY C.N.I.I. MORSKOGO PLOTA, 57, 1964, P. 3-  25  THIS IS AN EXTENSIVE AND DETAILED ARTICLE WHIC  ### DESCRIBES THE METHOD OF MODRE INVESTIGATIONS  ### DESCRIBES THE METHOD OF MODRE INVESTIGATIONS  ### DESCRIBES THE METHOD OF MODRE INVESTIGATIONS  ### OF THE ELECTRO-CHEMICAL PROTECTION, THE NATUR  #### B1003 56  ### DOTESTIAL DISTRIBUTION ALONG THE HULL IN  #### B1003 56  #### DISTRIBUTION ALONG THE HULL IN  #### B1003 56  #### DISTRIBUTION OF THIS PROTECTION. THE ### B1003 56  #### DISTRIBUTION OF THIS PROTECTION. THE ### B1003 56  #### DISTRIBUTION OF THIS PROTECTION. THE ### B1003 56  #### B1003 56  #### DISTRIBUTION OF THIS PROTECTION. THE ### B1003 56  #### B1003 56	TRUDY C.N.I.T. MORSKOGO PLOTA, 57, 1964, P. 3-25	0100	203
25 THIS IS AN EXTENSIVE AND DETAILED ARTICLE WHIC H DESCRIBES THE METHOD OF MODEL INVESTIGATIONS OF THE ELECTRO-CHENICAL PROTECTION, THE NATUR OF THE ELECTRO-CHENICAL PROTECTION, THE NATUR OF THE ELECTRO-CHENICAL PROTECTION, THE NATUR OF POTENTIAL DISTRIBUTION ALONG THE HULL IN H 1003 DIFFERENT VARIANTS OF CATHODIC PROTECTION. TH B 1003 SI NI COMBINATION WITH PAINTS IS SHOWN. BOTH H 81003 IN COMBINATION WITH PAINTS IS SHOWN. BOTH H 81003 A DASIS FOR EVALUATION OF THE PROFELLER INFLU B 1003 ENCE IN ANALYSIS OF THE ELECTRO-CHEMICAL INFLU B 1003 ENCE OF SEA SHIPS. CORNOSION FROTECTION B 1003 PROTECTION, CORNOSION B 1003 PAINTS B 1003 COATHODIC PROTECTION B 1003 BARDINA, V. P. SUPRUN, L. A. SUPRUN, L. A. SUPRUN, L. A. B 1004 THE SCHEENS ARGUND ANODES IN CATHODIC PROTECTI B 1004 SI 1004 THE SCHEENS ARGUND ANODES IN CATHODIC PROTECTI B 1004 THE SCHEENS ARGUND ANODES IN CATHODIC PROTECTI B 1004 TRUDY C.N.I.I. MORSKOGO FLOTA, 57, 1964, P. 26 B 1004 THIS SA DETAILED ARTICLE ON EXPERIMENTAL INV B 11004 SI 1004 THE SCHEENS ARGUND ANODES IN CATHODIC PROTECTI B 1004 THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV B 11004 THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV B 11004 THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV B 11004 THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV B 11004 THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV B 11004 THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV B 11004 THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV B 11004 THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV B 11004 THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV B 11004 THE SET OF THE SCHEENS AROUND ANOUES IN CATHOD B 1004 THE STANDING AND IN MOVING SEA WATER, UNDER SI B 1004 THE STANDING AND IN MOVING SEA WATER, UNDER SI B 1004 THE STANDING AND IN MOVING SEA WATER, UNDER SI B 1004 THE STANDING AND IN MOVING SEA WATER, UNDER SI B 1004 THE STANDING AND IN MOVING SEA WATER, UNDER SI B 1004 THE STANDING AND IN MOVING SEA WATER, UNDER SI B 1004 THE STANDING AND IN MOVING SEA WATER, UNDER SI B 1004 THE STANDING AND IN MOVING SEA WATER, UNDER SI B	25		204
THIS IS AN EXTENSIVE AND DETAILED ARTICLE WHIC  H DESCRIBES THE METHOD OF HODE LINVESTIGATIONS OF THE ELECTRO-CHEMICAL PROTECTION, THE NATUR 003 55  E OP POTENTIAL DISTRIBUTION ALONG THE HULL IN B1003 56  E US POTENTIAL DISTRIBUTION ALONG THE HULL IN B1003 56  E USZTULWESS OF APPLICATION OF THIS PROTECTION. TH B1003 56  IN COMBINATION WITH PAINTS IS SHOWN, BOTH TH B1003 56  ENCEL IN ANALYSIS OF THE PROTECTION B1003 56  ENCE IN ANALYSIS OF THE ELECTRO-CHEMICAL INFLU B1003 56  ENCE OF SEA SHIPS. CORROSION FROTECTION B1003 56  PROTECTION, CORROSION B1003 76  PROTECTION, CORROSION B1003 76  B1003 76  B1004 10  BARDINA, V. P. B1004 10  SUPRUM, L. A. B1004 10  INVESTIGATION OF COATINGS FOR USE AS PROTECT B1004 10  INVESTIGATION OF COATINGS FOR USE AS PROTECT B1004 20  ON.= TRUDY C.N.I.T. HORSKOGO FLOTA, 57, 1964, P. 26  B1004 22  TRUDY C.N.I.T. HORSKOGO FLOTA, 57, 1964, P. 26  B1004 56  A1004 56  A1			251 252
BESCHIBES THE METHOD OF MODEL INVESTIGATIONS   A	THE IS AN DELIGIOUS AND DELETED RESIDED MISSES		501
OF THE ELECTRO-CHEMICAL PROTECTION, THE NATUR 81003 55  E OP POTENTIAL DISTRIBUTION ALONG THE HULL IN 81003 55  DIFFERENT VARIANTS OF CATHODIC PROTECTION. TH 81003 56  E USZEULNESS OF APPLICATION OF THIS PROTECTION 81003 56  IN COMBINATION WITH PAINTS IS SHOWN. BOTH TH 81003 56  A BASIS FOR EVALUATION OF THE PROPELLER INFLU 81003 56  ENCE IN ANALYSIS OF THE ELECTRO-CHEMICAL INFLU 81003 56  ENCE OF SEA SHIPS. 81003 76  PROTECTION, CORNOSION 81003 76  PROTECTION, CORNOSION 81003 76  PROTECTION, CORNOSION 81003 76  PROTECTION, CATHODIC 81003 76  BARDINA, V. P. 81004 06  BARDINA, V. P. 81004 16  INVESTIGATION OF COATINGS FOR USE AS PROTECT 81004 22  TWE SCREENS AROUND ANODES IN CATHODIC PROTECTI 81004 22  TRUBY C.N.I.I. HORSKOGO FLOTA, 57, 1964, P. 26 81004 25  THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV 81004 56  ESTIGATION OF A NUMBER OF NON-ETAILIC COATINGS 61004 56  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE 81004 56  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE 81004 56  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE 81004 56  PATABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE 81004 56  RABBIC RATEOLY SCREENS AROUND ANODES IN CATHOD SIN CATHOD S	H DESCUTARS THE METHOD OF MODEL THREETINGOTORS		502
DIFFERENT VARIANTS OF CATHODIC PROTECTION. TH 81003 50  BUSFELLNESS OF APPLICATION OF THIS PROTECTION. TH 81003 50  E USZFULNESS OF APPLICATION OF THIS PROTECTION. 81003 50  IN COMBINATION WITH PAINTS IS SHOWN. BOTH TH 81003 50  BORETICAL AND EXPERIMENTAL STUDIES ARE USED AS 81003 50  A BASIS FOR EVALUATION OF THE PROPELLER INFLU 81003 50  ENCE IN ANALYSIS OF THE ELECTRO-CHEMICAL INPLU 81003 50  ENCE OF SEA SHIPS. 81003 70  PROTECTION, CORROSION 81003 70  PROTECTION, CORROSION 81003 70  PROTECTION, CORROSION 81003 70  PROTECTION, CATHODIC 81003 70  BARDINA, V. P. 81004 70  SUPRUN, L. A. 81004 10  INVESTIGATION OF COATINGS FOR USE AS PROTECT 81004 20  ONA= 81004 20  TRUBY C.N.I.I. HORSKOGO FLOTA, 57, 1964, P. 26 81004 20  TRUBY C.N.I.I. HORSKOGO FLOTA, 57, 1964, P. 26 81004 20  THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV 81004 50  ESTIGATION OF A NUMBER OF NON-BETALIC COATINGS 81004 50  IN STANDING AND IN HOVING SEA WATER, UNDER SI 81004 50  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE 81004 50  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE 81004 50  D THAT EPOXY QATINGS ARE BOST SULTABLE FOR US 81004 50  D THAT EPOXY QATINGS ARE BOST SULTABLE FOR US 81004 50  CATHODIC PROTECTION. 81004 70  COATINGS 81004 70			503
DIFFERENT VARIANTS OF CATHODIC PROTECTION. TH 81003 50  E USZFULNESS OF APPLICATION OF THIS PROTECTION 81003 50  IN COMBINATION WITH PAINTS IS SHOWN. BOTH TH 81003 50  EORETICAL AND EXPERIMENTAL STUDIES ARE USED AS 81003 50  ENCE OR EVALUATION OF THE PROPELLER INFLU 81003 50  ENCE IN ANALYSIS OF THE ELECTRO-CHEMICAL INFLU 81003 50  ENCE OF SEA SHIPS. 81003 70  PROTECTION, CORROSION 81003 70  PROTECTION, CORROSION 81003 70  PROTECTION, CORROSION 81003 70  PROTECTION, CATHODIC 81003 70  BARDINA, V. P. 81004 00  BARDINA, V. P. 81004 00  INVESTIGATION OF COATINGS FOR USE AS PROTECT 81004 20  TRUDY C.N.I.I. HORSKOGO FLOTA, 57, 1964, P. 26 81004 20  TRUDY C.N.I.I. HORSKOGO FLOTA, 57, 1964, P. 26 81004 20  THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV 81004 50  THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV 81004 50  THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV 81004 50  WULTANEOUS INPLURNCE OF ELECTRIC COATINGS 81004 50  RIABLE VOLTAGE (12 TO 100 V.) IT IS CONCLUDE 81004 50  E AS PROTEC. VE SCREENS AROUND ANODES IN CATHOD SIN CATHOD			504
B USZFULNESS OF APPLICATION OF THIS PROTECTION   81003   56			505
IN COMBINATION WITH PAINTS IS SHOWN. BOTH TH 81003 50  EORETICAL AND EXPERIMENTAL STUDIES ARE USED AS 81003 50  A BASIS FOR EVALUATION OF THE PROPELLER INPLU 81003 50  ENCE IN ANALYSIS OF THE ELECTRO-CHEMICAL INPLU 81003 50  ENCE OF SEA SHIPS. 81003 70  CORROSION FPOTECTION 91003 70  PROTECTION, CORROSION 81003 70  PAINTS 81003 70  CATHODIC PROTECTION 81003 70  BARDINA, V. P. 81004 10  SUPRUN, L. A. 81004 10  INVESTIGATION OF COATINGS FOR USE AS PROTECT 81004 20  IVE SCREENS AROUND ANODES IN CATHODIC PROTECTI 81004 20  TRUBY C.N.I.I. HORSKOGO FLOTA, 57, 1964, P. 26 81004 20  THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV 81004 50  ESTIGATION OF A NUMBER OF NON-BETALIC COATINGS 81004 50  ENTISTIS A DISTALLED ARTICLE ON EXPERIMENTAL INV 81004 50  ENTISTIS AND IN MOVING SEA WATER, UNDER SI 81004 50  THAT EPOXY OATINGS ARE MOST SULTABLE FOR US 81004 50  RIABLE VOLTAGE (12 TO 100 V.) IT IS CONCLUDE 81004 50  PROTECTION, CATHODIC 96 100 TO	·		506
EORETICAL AND EXPERIMENTAL STUDIES ARE USED AS   81003   50			507
A BASIS FOR EVALUATION OF THE PROPELLER INFLU 81003 50  ENCE IN ANALYSIS OF THE ELECTRO-CHEMICAL INFLU 81003 50  ENCE OF SEA SHIPS 81003 70  PROTECTION 91003 70  PROTECTION, CORHOSION 81003 70  PROTECTION, CORHOSION 81003 70  PROTECTION, CATHODIC 81003 70  BARDINA, V. P. 81004 00  BARDINA, V. P. 81004 10  INVESTIGATION OF COATINGS FOR USE AS PROTECT 81004 20  IVE SCREENS AROUND ANODES IN CATHODIC PROTECTI 81004 20  TRUBY C.N.I.I. HORSKOGO FLOTA, 57, 1964, P. 26 81004 20  THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV 81004 20  ESTIGATION OF A NUMBER OF NON-HETALIC COATINGS 81004 50  IN STANDING AND IN MOVING SEA WATER, UNDER SI 81004 50  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE 81004 50  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE 81004 50  E AS PROTECVE SCREENS AROUND ANODES IN CATHO 81004 50  CATHODIC PROTECTION. 81004 50  CATHODIC PROTECTION. 81004 50  CATHODIC PROTECTION 81004 50  CATHODIC PROTECTION. 81004 50  CATHODIC PROTECTION. 81004 50  CATHODIC PROTECTION. 81004 70  COATINGS 81004 70			508
ENCE IN ANALYSIS OF THE ELECTRO-CHEMICAL INPLU  ENCE OF SEA SHIPS.  CORROSION PROTECTION  PROTECTION, CORROSION  R1003  70  PROTECTION, CORROSION  R1003  70  PAINTS  CATHODIC PROTECTION  B1003  70  PROTECTION, CATHODIC  B1003  R1003  70  PROTECTION, CATHODIC  B1004  B1004  CINVESTIGATION OF COATINGS FOR USE AS PROTECT  IVE SCREENS AROUND ANODES IN CATHODIC PROTECTI  R1004  TRUBY C.N.I.I. MORSKOGO FLOTA, 57, 1964, P. 26  THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV  ESTIGATION OF A NUMBER OF NON-DETAIL COATINGS  IN STANDING AND IN MOVING SEA WATER, UNDER SI  R1004  SC  THAT EPOXY OATINGS ARE BOST SUITABLE FOR US  B 1004  SC  CATHODIC PROTECTION.  R1004  SC  CATHODIC PROTECTION  B1004  SC  CATHODIC PROTECTION  B1004  SC  CATHODIC PROTECTION  B1004  SC  CATHODIC PROTECTION  B1004  SC  CATHODIC PROTECTION, CATHODIC  B1004  SC  CATHODIC PROTECTION, CATHODIC  B1004  SC  COATINGS  B1004  SC  B1004  SC  B1004  SC  COATINGS  B1004  SC  B1004  SC  B1004  SC  B1004  SC  CATHODIC PROTECTION  B1004  SC  CATHODIC PROTECTION  B1004  SC  CATHODIC PROTECTION, CATHODIC  B1004  SC  COATINGS  B1004  SC  B1004  SC  B1004  SC  COATINGS  B1004  SC  B1004  SC  COATINGS  B1004  SC  B10			509
ENCE OF SEA SHIPS.  CORROSION PROTECTION  PROTECTION, CORROSION  PAINTS  CATHODIC PROTECTION  B1003  70  PROTECTION, CATHODIC  B1004  B1003  FROTECTION, CATHODIC  B1004  B1003  FROTECTION, CATHODIC  B1004			510_
CORROSION FPOTECTION   81003   70			511
PROTECTION, CORROSION  PAINTS  81003  70  CATHODIC PROTECTION  81003  70  PROTECTION, CATHODIC  81004  81004  81004  81004  81004  81004  81004  81004  81004  81004  10  SUPRUN, L. A.  INVESTIGATION OF COATINGS FOR USE AS PROTECT  81004  20  IVE SCREENS AROUND ANODES IN CATHODIC PROTECTI  81004  21  TRUBY C.N.I.I. MORSKOGO FLOTA, 57, 1964, P. 26  81004  25  THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV  81004  ESTIGATION OF A NUMBER OF NON-METALIC COATINGS  81004  ESTIGATION OF A NUMBER OF NON-METALIC COATINGS  IN STANDING AND IN MOVING SEA WATER, UNDER SI  81004  SO  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE  81004  D THAT PROXY CATINGS ARE MOST SUITABLE FOR US  81004  50  CATHODIC PROTECTION.  81004  70  CATHODIC PROTECTION  81004  70  COATINGS  81004  70  COATINGS  81004  70  COATINGS  81004  70  RIOMALIANDO CATHODIC  81004  70  RIOMALIANDO CATHODIC  81004  70  RIOMALIANDO CATHODIC  81004  70  RIOMALIANDO CATHODIC  81004  70  RIOMALIANDO COATINGS  RIOMALIANDO COATINGS  RIOMALIANDO COATINGS  RIOMALIAN			
PAINTS			701
CATHODIC PROTECTION   81003   76	· · · · · · · · · · · · · · · · · · ·		702
### PROTECTION, CATHODIC ### 81004			703
### 81004 ### 81004   00   ### BARDINA, V. P.			704
BARDINA, V. P.   81004   10			
SUPRUN, L. A.  INVESTIGATION OF COATINGS FOR USE AS PROTECT  IVE SCREENS ARGUND ANODES IN CATHODIC PROTECTI  ON.=  TRUDY C.N.I.I. HORSKOGO FLOTA, 57, 1964, P. 26  TRUDY C.N.I.I. HORSKOGO FLOTA, 57, 1964, P. 26  THIS IS A DETAILED ARTICLE ON EXFERIMENTAL INV  ESTIGATION OF A NUMBER OF NON-BETALIC COATINGS  IN STANDING AND IN MOVING SEA WATER, UNDER SI  STANDING AND IN MOVING SEA WATER, UNDER SI  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE  D THAT EPOXY OATINGS ARE HOST SUITABLE FOR US  E AS PROTECLIVE SCREENS AROUND ANODES IN CATHO  CATHODIC PROTECTION.  CATHODIC PROTECTION  RICOURTED  81004  70  ROATINGS			101
INVESTIGATION OF COATINGS FOR USE AS PROTECT  IVE SCREENS AROUND ANODES IN CATHODIC PROTECTI  ON.=  TRUDY C.N.I.I. MORSKOGO FLOTA, 57, 1964, P. 26  TRUDY C.N.I.I. MORSKOGO FLOTA, 57, 1964, P. 26  81004  25  THIS IS A DETAILED ARTICLE ON EXFERIMENTAL INV  ESTIGATION OF A NUMBER OF NON-METALIC COATINGS  IN STANDING AND IN MOVING SEA WATER, UNDER SI  STANDING AND IN MOVING SEA WATER, UNDER SI  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE  ATTICLE OF ELECTRIC CURRENT OF VA  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE  AS PROTECVE SCREENS AROUND ANODES IN CATHO  DIC PROTECTION.  CATHODIC PROTECTION  RICOU  PROTECTION, CATHODIC  COATINGS  81004  70  COATINGS  81004  70  ROMAN AND ROMAN A			102
IVE SCREENS AROUND ANODES IN CATHODIC PROTECTI  ON.=  TRUDY C.N.I.I. MORSKOGO FLOTA, 57, 1964, P. 26  R1004  25  THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV  ESTIGATION OF A NUMBER OF NON-METALIC COATINGS  IN STANDING AND IN MOVING SEA WATER, UNDER SI  STANDING AND IN MOVING SEA WATER, UNDER SI  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE  RAS PROTECLIVE SCREENS AROUND ANODES IN CATHO  DIC PROTECTION.  CATHODIC PROTECTION  PROTECTION, CATHODIC  COATINGS  81004  70  COATINGS  81004  70  COATINGS  81004  70  R1004	<b>▼</b>		201
ON.=       81004       20         TRUDY C.N.I.I. MORSKOGO FLOTA, 57, 1964, P. 26       81004       25         -36       81004       25         THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV       81004       50         ESTIGATION OF A NUMBER OF NON-METALIC COATINGS       81004       50         IN STANDING AND IN MOVING SEA WATER, UNDER SI       81004       50         MULTANEOUS INFLUENCE OF ELECTRIC CURRENT OF VA       81004       50         RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE       81004       50         D THAT EPOXY OATINGS ARE MOST SUITABLE FOR US       81004       50         E AS PROTECve SCREENS AROUND ANODES IN CATHO       81004       50         DIC PROTECTION.       81004       50         CATHODIC PROTECTION       81004       70         PROTECTION, CATHODIC       81004       70         COATINGS       81004       70			202
TRUDY C.N.I.I. MORSKOGO FLOTA, 57, 1964, P. 26  -36  THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV ESTIGATION OF A NUMBER OF NON-METALIC COATINGS  IN STANDING AND IN MOVING SEA WATER, UNDER SI  MULTANEOUS INFLUENCE OF ELECTRIC CURRENT OF VA RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE  D THAT EPOXY OATINGS ARE BOST SUITABLE FOR US E AS PROTECLIVE SCREENS AROUND ANODES IN CATHO  DIC PROTECTION.  CATHODIC PROTECTION  R1004  70  PROTECTION, CATHODIC  COATINGS  81004  70  R1004			203
THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV 81004 50 ESTIGATION OF A NUMBER OF NON-METALIC COATINGS 81004 50 IN STANDING AND IN MOVING SEA WATER, UNDER SI 81004 50 MULTANEOUS INPLUENCE OF ELECTRIC CURRENT OF VA 81004 50 RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE 81004 50 D THAT EPOXY CATINGS ARE BOST SUITABLE FOR US 81004 50 DIC PROTECTION. 81004 50 CATHODIC PROTECTION 81004 70 PROTECTION, CATHODIC 81004 70 COATINGS 81004 70			251
THIS IS A DETAILED ARTICLE ON EXPERIMENTAL INV  ESTIGATION OF A NUMBER OF NON-BETALIC COATINGS  IN STANDING AND IN MOVING SEA WATER, UNDER SI  MULTANEOUS INFLUENCE OF ELECTRIC CURRENT OF VA  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE  D THAT EPOXY CATINGS ARE MOST SUITABLE FOR US  E AS PROTECTION.  CATHODIC PROTECTION  PROTECTION, CATHODIC  COATINGS  81004  70  COATINGS	· · · · · · · · · · · · · · · · · · ·		252_
ESTIGATION OF A NUMBER OF NON-METALIC COATINGS 81004 50 IN STANDING AND IN MOVING SEA WATER, UNDER SI 81004 50 MULTANEOUS INPLUENCE OF ELECTRIC CURRENT OF VA 81004 50 RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE 81004 50 D THAT EPOXY OATINGS ARE MOST SUITABLE FOR US 81004 50 DIC PROTECTION. 81004 50 CATHODIC PROTECTION 81004 70 PROTECTION, CATHODIC 81004 70 COATINGS 81004 70			501
IN STANDING AND IN MOVING SEA WATER, UNDER SI  MULTANEOUS INFLUENCE OF ELECTRIC CURRENT OF VA  RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE  D THAT EPOXY OATINGS ARE HOST SUITABLE FOR US  E AS PROTECVE SCREENS AROUND ANODES IN CATHO  DIC PROTECTION.  CATHODIC PROTECTION  PROTECTION, CATHODIC  COATINGS  81004  70  COATINGS			502
MULTANEOUS INFLUENCE OF ELECTRIC CURRENT OF VA RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE D THAT EPOXY OATINGS ARE BOST SUITABLE FOR US E AS PROTECTIVE SCREENS AROUND ANODES IN CATHO DIC PROTECTION. CATHODIC PROTECTION PROTECTION, CATHODIC COATINGS  81004 70 COATINGS			503
RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE 81004 50  D THAT EPOXY OATINGS ARE MOST SUITABLE FOR US 81004 50  E AS PROTECLIVE SCREENS AROUND ANODES IN CATHO 81004 50  DIC PROTECTION. 81004 70  PROTECTION. CATHODIC 81004 70  COATINGS 81004 70	MULTANEOUS INFLUENCE OF ELECTRIC CURRENT OF VA		504
E AS PROTECTION.  DIC PROTECTION.  CATHODIC PROTECTION  PROTECTION. CATHODIC  COATINGS  81004  70  81004  70	RIABLE VOLTAGE (12 TO 100 V.). IT IS CONCLUDE	81004	505
DIC PROTECTION.  CATHODIC PROTECTION  PROTECTION. CATHODIC  COATINGS  81004  70  81004  70	D THAT EPOXY CATINGS ARE HOST SUITABLE FOR US	81004	506
CATHODIC PROTECTION 81004 70 PROTECTION, CATHODIC 81004 70 COATINGS 81004 70	E AS PROTECLIVE SCREENS AROUND ANODES IN CATHO	81004	507
PROTECTION, CATHODIC 81004 70 COATINGS 81004 70	DIC PROTECTION.	81004	508
COATINGS 81004 70		81004	701
· · · · · · · · · · · · · · · · · · ·	PROTECTION, CATHODIC		702
		81004	703
•			

08003	08001	010
FROLOV.V.		
	08661	101
SCIENTIFIC INVESTIGATIONS IN THE ARCTIC.=	08001	201
MOR <koj 17,="" 1957,="" 4-5<="" dec="" flot,="" pp.="" td=""><td>08001</td><td>251</td></koj>	08001	251
THIS IS A GENERAL ARTICLE WHICH DESCRIBES VARI	08601	501
OUR ASPECTS OF RESEARCH IN THE ARCTIC. FIRST,	08001	502
A BRIEF HISTORY SINCE 1920 IS GIVEN, AND USE	08001	503
OF STEAM ICEBREAKERS IN EARLY THIRTIES IS MENT	08001	504
IONED. MAIN ACTIVITIES DISCUSSED ARE OBSERVAT	08001	505
ION OF ICE SITUATION AND FORECASTS. WEATHER FO		
	08001	506
RECASTS, GEOPHYSICAL AND HYDROLOGICAL RESEARCH	08001	507
. CLEARING OF SEA ROUTES BY STAINING OF ICE FR	08001	508
OM AIRPLANES. ETC.	08001	509
DURING THE LAST 25 YEARS, ABOUT 400 SCIENTIFIC	08001	510
EXPEDITIONS HAVE BEEN ACCOMPLISHED BY RUSSIAN	08001	511
INVESTIGATORS IN THE ARCTIC. MANY OF THOSE E	08001	512
MPLOYED ICEBREAKERS. A BRIEF ACCOUNT OF ORGAN	08001	513
IZATION OF SUCH RESEARCH IS GIVEN. WORLD PRIO	08001	514
RITY IN THE FIELD IS CLAIMED. TRANSLATION OPT	08001	515
IONAL.	08001	516
ARTIC RESEARCH	08001	701
ICEBREAKERS, HISTORY	08001	702
HISTORY, ICEBREAKERS		
	08001	703
08002	08002	010
ANTONOV:V.	08002	101
NATURAL CONDITIONS OF EROSION OF THE ICE COV	08002	201
ERAGE IN SHORE ZONES OF ARCTIC SEAS.=	08002	202
MORSKOJ FLOT, 19, JAN 1959, PP. 24-25	08002	251
THIS IS A SHORT ACCOUNT ON THE TITLE SUBJECT A	08002	501
S RELATED TO SITUATION ALONG THE SIBERIAN COAS	08002	502
T. DATA OBTAINED BY VARIOUS OBSERVATION STATI	08002	503
ONS ARE BRIEFLY TABULATED. TRANSLATION OPTION	08002	504
AL.	08002	505
ARTIC RESEARCH	08002	701
ICE CONDITIONS	08002	702
	0800 <u>2</u> 08003	016
08003 MAKSUTOV.D.D.	08003.	101
4 HIGH-LATITUDE EXPEDITION ON THE NUCLEAR IC	08003 08003	201
		202
EHREAKER LENIN IN 1961.=	08003	
PROBLEMY ARKTIKI I ANARKTIKI. P. 107-109	£0080	251
THIS IS A SHORT ACCOUNT OF AN EXPEDITION ON TH	£0080	501
E LENIN ICFBREAKER. IT TOOK PLACE IN FALL OF	08003	502
1961 IN ORDER TO ESTABLISH A NEW RESEARCH AND	08003	503
ONCERVATION SITE NORTH POLE 10. IN ADDITION,	08003	504
15 AUTOMATIC RADIO METEOROLOGICAL STATIONS WE	60080	505
RE ESTABLISHED. IT WAS ALSO VERIFIED THAT THE	68603	506
LENIN ICEHREAKER IS SUITABLE FOR NAVIGATION A	08003	. 507
T HIGH LATITUDES DURING THE PERIOD OF POLAR WI	08003	508
NTER AND NIGHT.	<b>08003</b>	509
ICEBREAKER : ENIN	08663	701
	08003	702
LENIN ICEBREAKER	08003 08003	.703
ARCTIC RESEARCH		010
08004	08004	
LAKTIONOV, A.F.	38664	101
ROMANOVICH.J.S.	08004	102
AN ABBREVIATED LIST OF SOVIET REFERENCES ON	08004	201
ARCTIC RESEARCH BY MEANS OF HIGH-LATITUDE EXPE	08004	202
DITIONS AND RESEARCH STATIONS, 1937-1962.=	08004	203
PROBLEMY ARKTIKI I ANTARKTIKI 11, 1962, P. 115	<b>08004</b> .	251
-128	08004	252
= - · · · · · · · · · · · · · · · · · ·		

THIS IS AN ALPHABETICAL LIST OF OVER 300 REFER	Û&ÛÛ4	501
ENGES ON THE TITLE TOPIC.	08004	502·
ARCTIC RESEARCH	08004	701
08005	08005	011
TRESUNIKOV, A. F.	08005	101
SCIENTIFIC INVESTIGATIONS IN THE ARCTIC AND	08005	201
ANTARCTIC IN 1965 =	03005	202
PROBLEMY ARKT. I ANTARKT., 24, 1966, P. 5-10	08005	251
THIS IS A SHORT REVIEW OF THE ACTIVITIES OF TH	08005	501
E SOVIET ARCTIC AND ANTARCTIC INSTITUTE. ONE	08005	502
OF THOSE MENTICNED INCLUDES DEVELOPMENT OF A U	08005	503
NIFIED METHOD FOR DETERMINATION OF ICE LOADS O	08005	504
N SHIPS. OTHERS REFER TO INVESTIGATION OF ICE	08005	505
PROPERTIES, FORECASTS OF ICE SITUATIONS AND T	08005	506
HE LIKE. NO REFERENCES ARE GIVEN.	08005	507
ARCTIC RESEARCH	08005	701
08006	09006	011
KONOVALOV, I. M.	08006	101
AN APPROXIMATE THEORY OF ELEVATION OF DEEP W	08006	201_
ATER BY AIR BUBBLES. =	08006	202
TRUDY LENINGRAD, INST. INZHENEROV VODNOGO TRAN	08006	251
SPORTA, 18, 1951	08006	252
THIS IS A THEORETICAL ARTICLE ON THE TITLE TOP	08006	501
IC. THE AMOUNT OF WATER WHICH CAN BE ELEVATED	08006	502
BY AIR IS EVALUATED IN RELATION TO BUBBLE SIZ	08006	503
E AND DENSITY. THE RESULTS MAY BE USEFUL IN D	08006	504
EVELOPMENT OF AIR DEICING SYSTEMS IN HARBORS.	08006	505
ICEBREAKING THEORY	08006	701
THEORY, ICEBREAKING	08006	702
08007 .	08007	011
LEDENEV, V. G.	08007	101_
COOLING OF COASTAL WATER FIELDS IN THE ANTAR	08007	201
CTIC.=	08007	202
PROBLEMY ARKT. I ANTARKT., 17, 1964, P. 46-53	08007	251
THIS IS A DETAILED ARTICLE WHICH DESCRIBES THE	08007	501
TEMPERATURE REGIME OF EXTENSIVE STRIPS OF FRE	08007	502
E WATER WHICH ARE KNOWN TO EXIST, DURING MOST	08007	503
OF THE YEAR, ALONG COASTS AS WELL AS ON THE WE	08007	504
STERN SHORES OF SHELP ICEBERGS. ORIGIN OF THE	08007	505
SE STRIPS IS DISCUSSED.	08007	506
ARCTIC RESEARCH	08007	701
TCE CONDITIONS	08007	702

varoressa en sultante de la companya de la companya

The second secon

24001	24001	010
KOMANDIN,N.L.	24001	101
USE OF THE STEEL SKHL-1 IN SHIPBUILDING.=	24001	201
RECHNOJ TRANSPORT, 16, DEC 1957, PP. 17-19	24001	251
THIS IS A DETAILED DESCRIPTION OF THE MECHANIC	24001	501
AL PROPERTIES AS FUNCTIONS OF SHEET THICKNESS	24001	502
AND OF WELDABILITY OF THE TITLE STEEL. IT WAS	· 24001	503
PROBABLY THE FIRST LOW-ALLOY STEEL USED IN RU	24001	504
SSIAN SHIPBUILDING AND SINCE THEN TWO MORE SKH	24001	505
L STEELS HAVE APPEARED (NO. 4 AND 45 - SEE REF	24001	506
. 110). THE DISCUSSED STEEL CONTAINS 0.12-0.1	· 24001·	507
8(C, 0.4-0.7 SI, 0.6-0.9 CR, 0.3-0.6 NI AND 0.	24001	508
2-0.4 CU. ITS YIELD STRENGTH IS 50 KSI. MANY	24001	509
TABLES OF MECHANICAL PROPERTIES ARE INCLUDED	. 24001	° 510
AS WELL AS RESULTS FROM WELD EXAMINATIONS. IT	24001	511
IS CONCLUDED THAT ALTHOUGH NOT IDEAL: THE STE	24001	512
EL REPRESENTED CONSIDERABLE PROGRESS IN RUSSIA	24001	513
N SHIPBUILDING AND WAS SUCCESSFULLY USED FOR A	24001	514
TANKER AND FOR A RIVER PASSENGER SHIP.	24001 <sup>.</sup>	515
METALS, WELDING	24001	• 701
WELDING, METALS	24001	702
STEELS, LOW ALLOY	` 24001·	703
LOW ALLOY STEELS	24001	704
STEELS, SHIPBUILDING	24001'	705
SHIPBUILDING STEELS	24001	706

24002	±4002	010
RUCCO•V•L•	24002	101
INFLUENCE OF VIBRATIONS ON CRYSTALLIZATION O	24002	201
F THE WELD METAL.=	24002	202
SUDOSTROENIE, 24, APR 1958, PP. 37-41	24002	251
THIS IS A RATHER DETAILED DESCRIPTION OF AN EX	24002	
		501
PERIMENTAL INVESTIGATION ON THE TITLE TOPIC.	24002	502
BOTH LOW AND HIGH FREQUENCY VIBRATIONS WERE US	24002	503
ED. IT IS CONCLUDED THAT LOW FREQUENCY VIRRAT	24002	504
IONS (30-50 HZ), WHEN APPLIED TO THE CRYSTALLI	24002	505
ZING METAL, IMPROVE CONSIDERABLY NOTCH IMPACT	24002	506
		-
PROPERTIES OF A LOW-ALLOY CR-NI-MO STEEL. THE	24002	507
EFFECT IS CONNECTED WITH REFINING INFLUENCE O	24002	508
F VIBRATIONS ON AUSTENITIC GRAIN SIZE.	24902	509
HIGH FREQUENCY VIBRATIONS (20KHZ) SHOW FAVORAB	24002	510
LE EFFECT ON CRYSTALLIZATION OF A AL-MG WELDED		511
ALLOY AND LEAD TO A MORE UNIFORM DISTRIBUTION		512
OF INTERGRANULAR PHÁSE.	24002	513
WEIDING TECHNIQUES	24002	701
METALS, WELDING	24002	702
WE'DING, METALS	24002	703
STEELS, LOW ALLOY	24002	704
LOW ALLOY STEELS	24002	705
24003	24003	010
KARA SEV • V • M •	24003	101
USE OF PLASTICS ON THE NUCLEAR ICEBREAKER LE	24003	201
NIN.=	24003	202
SUDOSTROENIE, 27, AUG 1961, PP. 58-60	24003	251
THIS ARTICLE HAS APPEARED AS THE LAST ONE IN A	24003	501
SPECIAL NUMBER OF SUDOSTROENIE DEVOTED TO ICE	24003	502
BREAKER LENIN ONLY.	240(3	503
IT DESCRIBES IN GENERAL TERMS THE USE OF PVC P	24003	504
LASTICS IN INTERIOR DESIGN OF THE ICEBREAKER.	24003	505
WELDING PROCEDURES ARE BRIEFLY DISCUSSED. NO	2400~	506
DETAILS ARE GIVEN.	24005	507
ICEBREAKER LENIN	24003	
	-	701
LENIN ICEBREAKER	24003	702
PLASTICS	24003	703
PLASTICS, WELDING	24003	704
WEIDING. PLASTICS	24003	705
24004	24004	010
KOVRYZHKIN,V.F.	24004	101
CLADED (DOUBLE-LAYERED) STEEL AND ITS USE IN	24004	201
SHIPBUILDING.=	24004	202
SUDOSTROENIE, 27, NOV 1961, PP. 57-60	24004	251
VARIOUS ASPECTS OF USE OF CLADED STEELS ARE DI	24004	501
SCUSSED IN RATHER GENERAL TERMS. MAINLY, PROT	24004	502
ECTION AGAINST CORROSION IS CONSIDERED. SOME	24004	503
	24004	504
COMPARISON OF MECHANICAL PROPERTIES OF CLADED		
AND UNCLADED STEELS IS GIVEN. AS WELL AS SPECI	24004	505
FIC TECHNOLOGY AND WELDING. THE ARTICLE CONTA	24004	506
ING ALSO DETAILED INFORMATION, BUT ONLY OF LIM	24004	507
ITED NATURE, DESCRIBING MECHANICAL WORKING AND	24004	508
WELDING OF FEW PARTICULAR STEELS.	24004	509
	24004	701
STEELS, SHIPBUILDING		
SHIPBUILDING STEELS	24004	702
METALS, JOINING .	24004	703
JOINING, METALS	24004	704
CORROSION PROTECTION	24004	705
PROTECTION, CORROSION	24004	706
LUCTURE COUNTRY OF	<b>6</b> -144-1	

24005	24009	ož j
ARI = TOV + V + C +	24.05	
KUDINOV, E.D.	24005	137
SER-IN.N.G.	24665	163
WELDABILITY INVESTIGATION OF THERMALLY-STREN	24005	201
GTHENED CARHON STEEL 20 C.=	24005	202
SUDOSTROENIE, 29, JAN 1963, PP. 51-54	24005	251
THIS ARTICLE DESCRIBES TESTS WHICH ARE TO CHAR	24005	501
ACTERIZE WELDARILITY OF THE MENTIONED SIEEL.	24005	502;
THE THERMALLY-STRENGTHENED CARBON STEEL 20 C I	24005	502 ;
S CONSIDERED AS A SUBSTITUTE FOR MORE EXPENSIV	24005	504
E LOW-ALLOY STEELS WITH YIELD LIMIT LARGER THA		
	24005	505 506
N 35 KG/MM2 (I.E. 50KSI). THE STEEL ITSELF IS	24005	506
NOT DESCRIBED.	24005	507
BOTH AUTOMATIC AND MANUAL WELDING WAS USED ON	24005	50 c
PLATES 10 AND 32 MM (I.E. 0.4 AND 1.25 IN.).	24005	509
ONLY EMPIRICAL TESTING METHODS ARE USED BENDI	24065	510
NG TESTS OF SPECIMENS WITH WELDS AND SURFACE W	24005	511
ELD-BEADS, IMPACT ROUND NOTCH TESTS, DROP-WEIG	24005	512
HT TESTS ON 4 WELDED BEAMS. IN ADDITION, LIMI	24005	513
TED METALLOGRAPHIC STUDIES OF THE WFLD WERE MA	24005	514
DE. THE RESULTS SHOW THAT THE TESTED WELDMENT	24005	515
S ARE SAFE AGAINST BRITTLE FRACTURE AT -25 DEG	24005	516
REES C AND THAT THE ORIGINAL STRENGTHENING WAS	24005	517
NOT IMPAIRED BY SUBSEQUENT WELDING.	24005	518
HOWEVER, SUCH CONCLUSIONS ARE NOT FULLY JUSTIF	24005	519
IED SINCE THE METHODS USED ARE OBSOLETE AND UN	24005	520
RELIABLE.	24005	521
STEELS, CARBON	24005	701
CARBON STEELS	24005	702
STEEL, ECONOMY	24005	703
ECONOMY, STEEL	24005	704
STEELS. HEAT TREATED	24005	705
HEAT TREATED STEELS	24005	706
METALS. WELDING	24005	707
WE'DING, METALS	24005	708
24006	24006	010
KACMAN, F.M.	24006	101
MATERIAL SELECTION FOR FABRICATION OF PROPEL	24006	201
LER SCREWS OF SEA SHIPS.=	24006	202
SUDOSTROENIE, 24, MAR 1958, PP. 50~53	24006	251
THIS IS A DETAILED ARTICLE DEALING WITH MATERI		
	24006	501
ALS WHICH COULD REPLACE THE DEFICIENT BRASS AS	24006	502 <sub>3</sub> 503
A MATERIAL FOR PROPELLERS. CARBON STEELS, ST	24006	
AINLESS STEELS, AND CAST IRONS ARE CONSIDERED	24006	504
AND COMPARED FROM THE CORROSION AND CAVITATION	24006	505
VIEWPOINT.	24006	506
MATERIALS, SELECTION	24006	701
SELECTION, MATERIALS	24006	702
SHIPS. PROPELLERS	24006	703
PROPELLERS, SHIPS	24006	704)
24007	24007	010
MAKSIMADZHI,A.I.	24007	101
NOVIKOV.O.A.	24007	102
SOKOLOV,L.G.	24007	103
TECHNICAL AND ECONOMICAL EFFICIENCY OF LOW-A	24007	2014
LLOY STEELS ON DRY CARGO SHIPS.=	24067	202≨
SUDOSTROENIE, 22, OCT 1956, PP. 27-30	24007	251 🖁
THIS ARTICLE COMPARES ECONOMICAL AND TECHNICAL	24007	501
FACTORS OF DRY CARGO SHIPS WHICH HAVE 1000, 3	24007	502
		₹′

- 000, 5000 AMD 10 000 TONS CAPACITY, RESPECTIVE	24.997	503
LY. FOLLOWING CASES ARE CONSIDERED 1. THE IN	24007	504
THE STREET CONTROL OF STREET STREET		
ITIAL CASE WHICH CONSIDERS A STEEL TITH 24 KG/	24057	505
MM2 (EQUALS 34 KSI) YIELD STRESS AND SHIPS WIT	24007	506
H TRANSVERSAL STRUCTURE, ACCORDING TO THE SOVI	24007	507
ET REGISTER. CASE 2 USES FOR ABOUT 450 OF ALL	24007	508
STRUCTURE A STEEL WITH 35 KG/FM2 (EQUALS 50 S	24007	509
KI) YIELD STRESS AND SHIPS OF SAME RESPECTIVE	24007	510
CAPACITY WITH LONGITUDINAL STRUCTURE. THE COM	24007	511
PARISON SHOWS THAT CASE 2 ENABLES TO SAVE UP	24007	512
		_
O 201 OF WEIGHT OF THE STEEL HULL, AND AT THE	24007	513
SAME TIME RISES CARGO CAPACITY BY ABOUT 61 AND	24007	514
SPEED BY ABOUT 2(. HENCE, PROPULSION CAPACIT	24007	515
Y MAY BE REDUCED BY ABOUT 81. A DETAILED COMP	24007	516
ARATIVE TABLE OF VARIOUS TECHNICAL AND ECONOMI	24007	517
CAL FACTORS IS INCLUDED.	24007	518
STEEL, ECONOMY	24007	701
ECONOMY, STEEL	24007	702
LOW ALLOY STEELS	24007	703
STEELS, LOW ALLOY	24007	704
		-
CARGO SHIPS, DESIGN	24007	705
DESIGN, CARGO SHIPS	24007	706
24008	24008	-
	_	010
KOSHELEV,G.G.	24008	101
ROZENFELD, I.L.	24008	102
		-
CORROSION RESISTANCE OF A CARBON STEEL AND O	24008	201
F LOW-ALLOY STEELS IN SEA WATER.=	24008	202
SUDOSTRCENIE, 25, NOV 1959, PP. 12-17	24008	251
SUSUALITY 23 NOV 17337 FF 12-11		
THIS IS A DESCRIPTION OF PROLONGED TESTS (UP T	24008	501
O 6 YEARS) OF 3 MM THIN METALLIC SHEETS IN SEA	24008	502
WATER. A COMPARISON OF CORROSION RESISTANCE	24008	503
AND OF CHANGE OF MECHANICAL PROPERTIES IS GIVE	24008	504
N FOR A ST.3 LOW CARBON STEEL AND OF THREE LOW	24008	505
-ALLOY STEELS (SKHL-1, MS-1, MK) IN VARIOUS HE		506
AT TREATED STATES. NO WELDED OR LOADED NOTCHE	24008	507
D SPECIMENS WERE USED AND THEREFORE THE USEFUL	24008	508
NESS OF RESULTS IS RATHER LIMITED.	24008	509
CORRUSION RESISTANCE	24008	701
RESISTANCE, CORROSION	24008	702
	24008	703
CARBON STEELS		
STEELS, CARBON	24008	704
LOW ALLOY STEELS	24008	705
- · · · <del>- ·</del> · · · - · · · · · ·		
STEELS, LOW ALLOY	24008	706
TESTING METHODS	24008	707
METHODS, TESTING	24008	708
	<del>-</del>	
24009	24009	010
SCS CHERBAKOV , P . S .	24009	101
	24009	102
ZOBA CHEV, JU.E.		
SUPRUN, L.A.	24009	103
CORROSION DAMAGE TO SHIP STRUCTURAL MATERIAL	24009	201
S IN A STREAM OF SEA WATER.=	24009	202
SUDOSTROENIE, 28, JUN 1962, PP. 55-59	24009	251
EXPERIMENTS ON CORROSION RESISTANCE OF A LARGE	24009	501
VARIETY OF MATERIALS IN A STREAM OF SEA WATER	24009	502
ARE DESCRIBED. IN PARTICULAR, RATE OF CORROS	24009	503
ION VS. SPEED OF MOTION OF SAMPLE RECTANGULAR	24009	504
ION VA SPEED OF MULTUR OF SAMPLE RECTARGULAR		
PLATES 0.1 X 1 X 2 IN. IN SEA WATER WAS MEASUR	24009	505
ED. THE MATERIALS TESTED WERE 6 TYPES OF CAR	24009	506
DON AND LOW-ALLOW STEELS & STATMIESS STEELS	24009	507
BON AND LOW-ALLOY STEELS, 6 STAINLESS STEELS,		
2 CAST IRONS, 1 COPPER, 6 BRONZES, 3 BRASSES,	24009	508
		•

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3 MAGNESIUM ALLOYS AND 1 ALUMINUM ALLOY. THE	24009	509
TESTING SPEED WAS FROM 2 TO 16 M/SEC (6.5 TO 5	24009	510
2.55 FPS). RESULTS SHOW, ALMOST INVARIABLY, A	24009	511
SHARP INCREASE IN CORROSION RATE WITH SPEED.	24009	512
PARTICULARLY FOR HIGH SPEEDS.	24009	513
AUSTENITIC STAINLESS STEELS, ALUMINUM BRONZES	24009	514
AND BRASSES SHOW LESS THAN 0.01 IN. OF CORRODE	24009	515
D DEPTH PER YEAR AT HIGHEST SPEED. COPPER SHO	24009	516
WS MORE THAN TWICE AS MUCH, WHILE STEELS DISPL	24009	517
AY ABOUT 10 TIMES OF THE FORMER RATE, ALUMINUM	24009	518
ALLOYS AND MAGNESIUM ALLOYS ARE MUCH WORSE.	24009	519
NO STRESS CORROSION TESTS ARE MENTIONED, AND T	24009	520
HE INFLUENCE OF TEMPERATURE, WELDING, STRESS C	24009	521
ONCENTRATIONS. ETC. IS NEGLECTED. FRANSLATION		522
OPTIONAL.		
		, ,
CORROSION RESISTANCE	24009	701
RECISTANCE, CORROSION	24009	702
CARBON STEELS	24009	703
STEELS, CARBON	24009	704
ALLOY STEELS	24009	705
STEELS, ALLOY	24009	706
TESTING METHODS	24009	707
24010	24010	010
SHMIDT.N.V.	24010	101
DON COV , P . M .	24010	102
KRASILNIKOV, Z.N.	24010	103
SHVACH, E.N.	24010	104
OV-JANNIKOV,I.I.	24010	105
HEAT STRENGTHENED CARBON STEEL FOR SHIPBUILD	24010	201
ING.=	24010	202
SUDOSTROENIE, 28, SEP 1962, PP. 44-48	24010	251
THIS IS A DESCRIPTION OF HEAT TREATMENT OF A 2	24010	501
O & CARBON STEEL WHICH MAY BE STRENGTHENED UP	24010	502
TO 35 KG/MM2 (ABOUT 50 KSI) IN YIELD STRENGTH.	24010	503
THIS IS DONE MERELY FOP ECONOMICAL REASONS,	24010	504
NAMELY BECAUSE NICKEL AND COPPER ARE DEFICIENT	24010	505
IN RUSSIA AND MAKE LOW-ALLOY STEELS LESS AVAI	24010	50ć
LABLE. ALTHOUGH MECHANICAL PROPERTIES AND BRI	24010	50 <b>7</b>
TTLENESS COMPARE REASONABLY WITH THOSE OF LOW-	24010	508
ALLOY STEELS, NO COMMENT IS MADE ON WELDABILIT	24010	50 <del>9</del>
Y, CORROSION RESISTANCE, ETC.	24010	510
STEELS, SHIPBUILDING	24010	701
SHIPBUILDING STEELS	24010	702
STEELS: HEAT TREATED	24010	703
HEAT TREATED STEELS	£~24010	704
CARBON STEELS	24010	705
STEELS, CARBON	24010	706
24011	24011	010
BEZUKLADOV, V.F.	24011	101
CHUVIKOVSKIJ.G.S.	24011	102
CHUVIKOVSKIJ, V.S., SHEVANDIN, E.M.	24011	103
FATIGUE OF SHIP STRUCTURAL STEELS AND STRENG	24011	201
TH OF SHIP STRUCTURES.=	24011	202
SUDOSTROENIE, 23, FEB 1957, PP. 1-8	24011	251
THIS IS AN EXTENSIVE EXPERIMENTAL STUDY IN FAT	24011	501
IGUE RESISTANCE OF SIX CARBON AND LOW-ALLOY ST	24011	502
EE'S USED FO! SHIPBUILDING IN RUSSIA. BOTH SM	24011	503
ALL, SMOOTH AND NOTCHED SPECIMENS AND LARGE WE	24011	504
LDED BEAMS WERE TESTED AND MINIMUM S-N CURVES	24011	505
OBTAINED AS LOWER BOUNDS OF WIDELY SCATTERED R	24011	506
ANIMOMEN OF FAMEN PARIMON AN MIRER ASULIFINES V	<b>-74</b>	

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		-	, ,
			<b>3</b>
			7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.
ESULTS. THE REASONING OF THIS PROGRAM IS		24C11	
	50 TH	24012	
E TREATMENT IS CLASSICAL, AND NO THEORETIC ONCLUSIONS ARE MADE.	CAL	24011	500
FATIGUE TESTING		24011	51C 🐉 .
TESTING, FATIGUE	•	24011	70:
CARBON STEELS		24011	702
STEELS, CARBON		24011	7C3 🗿
STEELS, LOW ALLOY	\$	24011	704
LOW ALLOY STEELS	•	24011	705
24012		24011	706
SMOKJAVCOV,B.		24012	010
RELECTION OF A SHIP STRUCTURAL STEEL WI	TU BE	24012	101
SPECT TO WEIGHT PARAMETERS AND HULL STABI		24012	201
SPECI TO WEIGHT PARAMETERS AND HOLL STABIL	L1110	24012	202
RECHNOJ TRANSPORT: 21, DEC 1962	•	24012	203
THIS IS A SHORT BUT DETAILED ACCOUNT OF THE	ue tt .	24012	721 ž
TLE SUBJECT. IT CONTAINS A TABLE OF CHEM		24012	501
COMPOSITION AND MECHANICAL PROPERTIES OF		24012 24012	502
HON AND OF 4 LOW-ALLOY STEELS USED IN SH		24012	503
LDING IN RUSSIA. SIMPLE FORMULAE AND GRA		24012	504
OR SELECTION ARE INCLUDED. TRANSLATION R		24012	505
ENDED.	ECOMM	24012	506
MATERIALS, SELECTION	•	24012	507
SELECTION, MATERIALS		24012	701 702
SHIPBUILDING STEELS		24012	702
STEELS, SHIPBUILDING	•	24012	704
STEELS, CARBON		24012	705
CARBON STEELS	•	24012	706
STEELS, LOW ALLOY		24012	707
LOW ALLOY STEELS		24012	708
24013	•	24013	010
SHILOV.I.V.		24013	101
ON SOME PROBLEMS OF CORROSION PROTECTION	-	24013	201
A SHIP HULL (FROM PRACTICE OF HOLLAND SHIP		24013	202
DERS ) ==	- DOIL	24013	203
SUDOSTROENIE, 24, SEP 1958, PP. 76-77	•	24013	251
THIS IS A REVIEW ARTICLE BASED MAINLY ON	TNEOD	24013	501
MATION ABOUT CORROSION PROTECTION PRACTIC		24013	502
THE DE SCHELDE SHIPYARD. FOLLOWING TOPIC		24013	503
DISCUSSED REMOVAL OF ROLLING SCALE FROM		24013	504
L PLATES. THE SCALE IS A SUBSTANTIAL COR		24013	505
N ACCELERATOR AND MAY BE REMOVED EFFECTIVE	RUSIU Fiva	24013	506
Y GRIT BLASTING. THEN A COMPOUND (ACRO-B		24013	507
		24013	508
S MENTIONED WHICH IS USED TO CONVERT RUST PHOSPHATES WHICH PROTECT STEEL AGAINST F	INTU	24013	509
R CORROSION. SINCE WELDS SERIOUSLY IMPAIR		24013	510
		24013	511
ROSION RESISTANCE, VARIOUS TECHNIQUES, BO		24013 24013	512
LDING AND PROTECTIVE, ARE DISCUSSED. TRA	13641	24013	513
ION OPTIONAL.	•	24013	701
CORRUSION PROTECTION		24013	
PROTECTION, CORROSION	· Auma	E4013	702

VYGOCKIJ.A.A.  Z00ACHEV.JU.E.  CAVITATICN RESISTANCE OF MATERIALS IN MEDIA  WITH VARIDUS ADDITIONS.=  TRUDY C.N.I.I. MORSKOGO FLOTA 57, 1964, P. 43-  Z014 201  Z014 201  Z014 201  Z014 201  Z014 201  Z014 201  Z014 202  Z014 203  Z015 204  Z016 204  Z017 206  Z018 207  Z018 208  Z018 2	240] 4		
20th CHEV.JU.E.  CAVITATION RESISTANCE OF MATERIALS IN MEDIA  WITH VARIOUS ADDITIONS		26014	010
CAVITATION RESISTANCE OF MATERIALS IN MEDIA  WITH VARIOUS ADDITIONS.=  TRUDY C.N.I.I. MORSNOGO FLOTA 57, 1964, P. 43-  24014  251  THE IS AN EXPERIMENTAL STUDY PERFORMED ON CAV  ITATION RESISTANCE OF VARIOUS STRUCTURAL MATER  IAL. (CAST IRON, STEEL, BRONZE). ALL WERE—TES  YED BY MEANS OF A MAGNETOSTRICTION GENERATOR I  N WATER CONTAINING VARIOUS CAVITATION INHIBITO  ONE IMPROVE THE CAVITATION RESISTANCE AT MOST.  THE CONNECTION BETWEEN CAVITATION DAMAGE AND  CORROSION—FATIGUE STRENGTH IS NOTED.  CORROSION—FATIGUE STRENGTH IS NOTED.  CAVITATION  24014  702  24014  703  24015  XO4  XAGANOVICH,I.S.  THE INFLUENCE OF CORROSION INHIBITORS ON COR  ROCION—FATIGUE RESISTANCE OF STEEL AND OF CAST  IRON.=  TRUDY C.N.I.I. MORSKOGO FLOTA 57, 1964, P. 51-  24015  24015  24015  2501  THIS IS AN EXPERIMENTAL STUDY IN FATIGUE BEHAV  INFO VARIOUS INTENSITY. THE MATERIALS TESTED.  24015  2503  24015  2503  THE MERCINGUS INTENSITY. THE MATERIALS TESTED.  24015  2503  THE A CAPPING STEEL A CAPPAN STEEL. A LARGE STEEL CAN DESTED.  24015  2501  NOT OF VARIOUS INTENSITY. THE MATERIALS TESTED.  24015  2503  24015  2503	200ACHEV.JULE.		
TRUDY C.N.I.I. MORSKOGO FLOTA 57, 1964, P. 43-  24014 251  50  THIS IS AN EXPERIMENTAL STUDY PERFORMED ON CAV 24014 501  ITATION RESISTANCE OF VARIOUS STRUCTURAL MATER 24014 502  IALS (CAST IRON, STEEL, BRONZE). ALL WERE-TES 24014 503  TED BY MEANS OF A MAGNETOSTRICTION GENERATOR I 24014 505  RS. IT IS CONCLUDED THAT EMULSION TYPE ADDITI 24014 506  ONS. IMPROVE THE CAVITATION RESISTANCE AT MOST. 24014 507  THE CONNECTION BETWEEN CAVITATION DAMAGE AND 24014 506  CORROSION-FATIGUE STRENGTH IS NOTED. 24014 701  CAVITATION 24015 24014 702  CAVITATION 24015 101  SHEKHOVCEV.B.D. 24015 101  MARUGIN.V.V. 24015 102  ROSION-FATIGUE RESISTANCE OF STEEL AND OF CAST 24015 102  IRON.=  THE INFLUENCE OF CORROSION INHIBITORS ON COR 24015 104  TROSION-FATIGUE RESISTANCE OF STEEL AND OF CAST 24015 202  IRON.=  TRUDY C.N.I.I. MORSKOGO FLOTA 57, 1964, P. 51- 24015 203  THIS IS AN EXPERIMENTAL STUDY IN FATIGUE BEHAV 24015 501  NTOF VARIOUS INTENSITY. THE MATERIALS TESTED 24015 503			
TRUDY C.N.I.I. MORSNOGO FLOTA 57, 1964, P. 43-  24014 251  THIS IS AN EXPERIMENTAL STUDY PERFORMED ON CAV  ITATION RESISTANCE OF VARIOUS STRUCTURAL MATER  IALE (CAST IRON, STEEL, BRONZE). ALL WERE-TES  ITED BY MEANS OF A MAGNETOSTRICTION GENERATOR I  N WATER CONTAINING VARIOUS CAVITATION INHIBITO  RS. IT IS CONCLUDED THAT EMULSION TYPE ADDITI  ONE IMPROVE THE CAVITATION RESISTANCE AT MOST.  THE CONNECTION BETWEEN CAVITATION DAMAGE AND  CORROSION-FATIGUE STRENGTH IS NOTED.  CORROSION RESISTANCE  REGISTANCE, CORROSION  CAVITATION  24014 701  CAVITATION  24015 101  SHEKHOVCEV, E.D.  MARUGIN, V.V.  KAGANOVICH, I.S.  THE INFLUENCE OF CORROSION INHIBITORS ON COR  ROCION-FATIGUE RESISTANCE OF STEEL AND OF CAST  IRON.=  IRUDY C.N.I.I. MORSKOGO FLOTA 57, 1964, P. 51-  60  THIS IS AN EXPERIMENTAL STUDY IN FATIGUE BEHAV  IOR OF SEVERAL STEELS IN A CORROSION ENVIRONME  ACABRAN STEELS IN A CORROSION ENVIRONME  ACABRA STEELS IN A CORROSION	WITH VARIOUS ADDITIONS -		
THIS IS AN EXPERIMENTAL STUDY PERFORMED ON CAV  THIS IS AN EXPERIMENTAL STUDY PERFORMED ON CAV  ITATION RESISTANCE OF VARIOUS STRUCTURAL MATER  IA'S (CAST IRON, STEEL, BRONZE). ALL WERE—TES  24014  502  TED BY MEANS OF A MAGNETOSTRICTION GENERATOR I  N WATER CONTAINING VARIOUS CAVITATION INNIBITO  RS. IT IS CONCLUDED THAT EMULSION TYPE ADDITI  ONE IMPROVE THE CAVITATION RESISTANCE AT MOST.  THE CONNECTION BETWEEN CAVITATION DAMAGE AND  CORROSION—FATIGUE STRENGTH IS NOTED.  CORROSION—FATIGUE STRENGTH IS NOTED.  CORROSION RESISTANCE  RESISTANCE, CORROSION  CAVITATION  24014  702  24015  CAVITATION  24015  CAVITATION  24015  CAVITATION  24015  CAVITATION  24015  CAVITATION  24015  CAVITATION  CAV	TRUDY Canalala MORSHOGO FLOTA 47 1044		
THIS IS AN EXPERIMENTAL STUDY PERFORMED ON CAV  ITATION RESISTANCE OF VARIOUS STRUCTURAL MATER  IA'LS (CAST IRON) STEEL, BRONZE). ALL WERETES  ED BY MEANS OF A MAGNETOSTRICTION GENERATOR I  N WATER CONTAINING VARIOUS CAVITATION INHIBITO  RS. IT IS CONCLUDED THAT EMULSION TYPE ADDIT I  ONG IMPROVE THE CAVITATION RESISTANCE AT MOST.  THE CONNECTION BETWEEN CAVITATION DAMAGE AND  CORROSION—FATIGUE STRENGTH IS NOTED.  CORROSION RESISTANCE  RESISTANCE, CORROSION  CAVITATION  24014  703  CAVITATION  24015  KOSTROV, E.N.  THE INFLUENCE OF CORROSION INHIBITORS ON COR  RAGANOVICH, I.S.  THE INFLUENCE OF CORROSION INHIBITORS ON COR  ROCIUN—FATIGUE RESISTANCE OF STEEL AND OF CAST  IRON. =  IRUDY C.N.I.I. MORSKOGO FLOTA 57, 1964, P. 51—  60  THIS IS AN EXPERIMENTAL STUDY IN FATIGUE BEHAV  INTOF VARIOUS INTENSITY. THE MATERIALS TESTED.  MEER A CARBADN STEELS IN A CORROSION ENVIRONME  A	50		
INTOIN RESISTANCE OF VARIOUS STRUCTURAL MATER  IA'S (CAST IRON, STEEL, BRONZE). ALL WERE—TES  TED BY MEANS OF A MAGNETOSTRICTION GENERATOR I  N WATER CONTAINING VARIOUS CAVITATION INHIBITO  RS. IT IS CONCLUDED THAT EMULSION TYPE ADDITI  ONS IMPROVE THE CAVITATION RESISTANCE AT MOST.  THE CONNECTION BETWEEN CAVITATION DAMAGE AND  CORROSION—FATIGUE STRENGTH IS NOTED.  CORROSION RESISTANCE  RESISTANCE, CORROSION  CAVITATION  24014  702  CAVITATION  24014  703  KOSTROV,E.N.  SHEKHOVCEV,E.D.  MARUGIN,V.V.  KAGANOVICH,I.S.  THE INFLUENCE OF CORROSION INHIBITORS ON COR  ROSION—FATIGUE RESISTANCE OF STEEL AND OF CAST  IRON.=  TRUDY C.N.I.I. MORSKOGO FLOTA 57, 1964, P. 51—  60  THIS IS AN EXPERIMENTAL STUDY IN FATIGUE BEHAV  INTOF VARIOUS INTENSITY. THE MATERIALS TESTED.  WEGEL A CABBAN STEELS IN A CORROSION ENVIRONME  A CABBAN STEELS THE STEELS TABLE OF STEEL AND OF CAST  INTOF VARIOUS INTENSITY. THE MATERIALS TESTED.  LEGE A CABBAN STEELS IN A CORROSION ENVIRONME  A CABBAN STEELS THE STEELS TABLE OF STEEL STEED.  24015  503		· · · · · · · · · · · · · · · · · · ·	252
TED BY MEANS OF A MAGNETOSTRICTION GENERATOR I  N WATER CONTAINING VARIOUS CAVITATION INHIBITO  RS. IT IS CONCLUDED THAT EMULSION TYPE ADDITI  ONE IMPROVE THE CAVITATION RESISTANCE AT MOST.  THE CONNECTION BETWEEN CAVITATION DAMAGE AND  CORROSION—FATIGUE STRENGTH IS NOTED.  CORROSION RESISTANCE  RESISTANCE, CORROSION  CAVITATION  24014  701  CAVITATION  24015  KOSTROV,E.N.  SHEKHOVCEV,E.D.  MARUGIN,V.V.  KAGANOVICH,I.S.  THE INFLUENCE OF CORROSION INHIBITORS ON COR  ROSION—FATIGUE RESISTANCE OF STEEL AND OF CAST  IRON.=  TRUDY C.N.I.I. MORSKOGO FLOTA 57, 1964, P. 51—  100  THIS IS AN EXPERIMENTAL STUDY IN FATIGUE BEHAV  INTOF VARIOUS INTENSITY. THE MATERIALS TESTED.  NEGEL A CARBANN STEELS IN A CORROSION ENVIRONME  A CARBANN STEELS IN ESTEELS TABLES TESTED.  24015  503  HEBER A CARBANN STEELS IN A CORROSION ENVIRONME  A CARBANN STEELS IN A STEELS TESTED.  24015  503	ITATION RESISTANCE OF VARIOUS CROUSTING		501
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	REDUCED DROPE IN YIELD STRENGTH WAS OBSERVED FOR ADDR	24921	San San	£07
	SPECINENS: SOME ATHER RESULTS OF ROUND HARE A			6.03, 
G <sub>C</sub>	TREND WITH EVEN LARGER COOPS, UP TO 14.51.	2401	101	2,20
	NAMERIALS, TESTING TIESTING, MATERIALS	24011		751
	MECHANICAL PROPERTIES	2401; 2401;	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	732 733
	SIZE EFFECIS	2401	<b>3.</b> \$\frac{1}{2}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}{2}}\text{\$\frac{1}	704
	ALL WOONS	24019 24019		010
	CORROSION-EATIGUE STRENGTH OF STEEL SPEC	24019		20.L
	THENS WHIGH WERE METALLIZED BY THE STAINLESS S	24619 24619		202 203
	TRUDY C.N.I. MORSKOGO FLOTA 22, 1959, P. 5-1	24619		200
	THIS IS AN EXTENSIVE AND INTERESTING PAPER ON	24019		252
	THE TITLE SHBUEST. THE STAINLESS STEEL USED I	24019 24019	- % 1	501 502
	S A TO CREENT TYPE WITH TITANIUM. A VARIETY O	24019	)	503
	F EFFECTS IS INVESTIGATED. INCLUDING SIZE EFFE. CIS. THE MAIN CONCLUSION REMAINS. THAT THE PR	24019 -24019		504. 505
	OTECTIVE CONTING IS USEFUL ONLY IF FATIGUE CRA			506
	CK INSTIGITION IS PREVENTED IN THE BASE MATERIA  CL. THIS GAN-BE ACHIEVED BY INTRODUCTION OF SU	24019		507
	REACE COMPRESSIVE RESIDUAL STRESSES BY SURFACE	24019		500. 509.
	WORKING TE CRACKS ARE PERMITTED TO BE FORME	24019		510
	ED. THE PROTECTION IS OF NO USE. THE CONTEMPLY-	24019		511. 512
Ŧ	PROPELLER SHAFTS IT IS CONCLUDED THAT METALL	24019	}	513
	- * IZING IS OF LITTLE USE IN SUCH CASES EXCEPT FO REHABIS WITH VERY LOW WORKING LOADS.	24019	3. 11. 43.	514
	FATIGUE TESTING	24019 24019	- 100	515 701
	TESTING FATIGUE  CORRUSTON PROTECTION	24019	From Miles miles	702
	PROJECTION CORROSION	24019 24019		703 704
	FOR GOATHINGS	24019		705
	240/20 ANONYMOUS	24020 7 24020	- water to an ear	010 101
	A STATE OF SOME STEEL STRENGTH OF SOME STEE	24020	2/1 12 1	201
	LS IN SEA VATER.42 ************************************	<u>, 24020</u>		202
	26	24920 24020		251 252
17	THIS IS A SHORT ACCOUNT OF FATIGUE EXPERIMENTS	24020	3500	501
7	WHIGH VERE PERFORMED IN REVERSED BENDING AND SPECIMENS WERE EXPOSED TO A CORROSIVE MEDIUM.	2402 <u>0</u> 24020	. **	502. 503.,
721	13 STEELS OF VARIOUS GRADES WERE TESTED. THE	2,4020	20, 20, 2	504
	GORROSOVE MEDIUM WAS A 31 SOLUTION OF NA C1 I	24,020 34,020	6 6-1	505
	RESENTS A GOOD SUBSTITUTE FOR SEA MATER.	24020 24020	. ~ ~14'	50 <u>6</u> 507
	HEST RESULTS WERE OBTAINED WITH AUSTENITIC STA	24020	THE WAS A SECTION	508
	INCESS STEELS. MARTENSITIC STAINLESS STEEL SH SOWED A DROP IN FATIGUE STRENGTH EY A FACTOR OF	24020 24020	** #= \\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	509 210
	2. HIGH-STRENGTH CARSON STEELS SHOVED WORSE	24020	- +1,51,	511
	HEHAVIOR. THE DROP SEING BY A FACTOR OF 10. C	24020 24020	-	512 513
	FACTUR OF 2 TO 4.5. ALL TESTS WERE PERFORMED	24020		514
	FOR AHOUT IO CYCLES:	. 24020 27.530	- 30-34 - 3	515
		24620		701
		and an analysis of the second		To P To m
A TO			-	<del>intrime</del> gers

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and the second of the second o		200
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The state of the s	24620 777702	100
	24626 4400	The same of the sa
TERTING, PATIEUL	- 7 The state of t	
SHIPPUIL ING STOLS		5 Mary 25 500
STEELS, SUIPALILIING	2402C 705	
44621	24021	
	24.21	
SUCHANONS	24921 25	37.5
TITLE INFLUENCE OF STRESS CUNCEPTENTORS OF C	2402 <u>1</u> 267	
DREOSION-FATIGUE STRENGTH OF SCHE STELLS AND A		
TURINUM BELOYS IN SEA WATERY	24021 253	
TRUDY C.N.T.F. MORSKOGO FLOTA 22, 1959, P. 27-	24021	
	24021	
367 STATE OF THE PROPERTY OF THE STATE OF WEAT C. BAS	24621 501	1856
HIS IS AN INTERESTING STUDY WHICH REVEALS BAS	24021	
IC FEATURES OF STRESS-CORROSION DAINGE TO STEE	24021 363	
ES AND ALUMINUM ALLOYS. IN PRINCIPLE. SHARP S		60
######################################	- 24621	200
CONSTDERANLY. LORROSTON DAMAGE IS SENERICITY	24021	
PROVIDING THE TA CAUSES EFFECTIV DEUNTING OF	24021 506	
PROPERTY AND AND AND AND AND A MOUNT CARE I	24021 507	
STREST TONGENTRATORS. THIS IS A USUAL CASE I	24021 568	
A STEE . IN ALUMINUM ALLOYS, HOWEVER, LIKE !	F 15 15 15 15 15 15 15 15 15 15 15 15 15	
· NIMOST LIHER CORROSION-PESISTANT ALLOYS: THE C		
ORROSION DAMAGE IS LIMITED AND RATHER CONTRIBU	24021	
TES TO FAILURE	24021 511	
THE LUENCE OF VARIOUS FACTORS OF THE FATIGUE CY	24021	
THE LUENCE OF VIRIOUS TACTORS OF THE RELIEFED	24021	
CLING REGIME AND OTHER EFFECTS ARE EVALUATED.	24021 701	
SEATIGUE TESTING TO THE TOTAL AND ASSESSED TO THE	or comit come come compared to a compared to the compared to t	A 25.4
GEATING, ENTIGUE		11452253
COSQUETON RESISTANCE	24021	13.34.25
REGISTANCE, CORPOSION	24021	• 1
	24572	7 7 6
240 22	24022	
ANDAYMOUS	24022	
THE INFLUENCE OF SPECIMEN SIZE ON CORRO	The second secon	
CEANEDATE RIFESTER OF STESLOE	24022 - 202	
TRUDYS GEN. I. MORSKOGO-FLOTA 22, 1959, P. 37	24022	
	24022	2 12
TOTAL PROPERTY OF THE PROPERTY	24022	i Kari
EXPERIMENTS ON THE TITLE TOPIC WERE PERFORMED	2,022	R 1 255-44
with CARRON STEEL BOTH IN CLEAN AND SALE WATER	The state of the s	
- Mary Hud Essent OF SAPE TS RELAXED 40 SPRESS AMT		2220
THE PROPERTY OF AND TO THE NUMBER OF CACLES. SEVERAL I	24022	
ENTATIVE CONCLUSIONS WERE REACHED WITH LITTLE	24022	100
EXPERIMENTAL DE THEORETICAL JUSTIFICATION,	-24022	
EXPERIMENTAL MALE THE CONTROL OF THE	24022	
COPROSTON	24022 70	ž 🎏 🛚
BATIQUE TESTING	24022	
REGTING, FATIGUE		
SIZE SFFECTS	24022	A Barrer
24023	24023	
	24023	1:192
ANONYMOUS	24023	
V. RELATION BETWEEN CORROSION-FATIGUE STREN	24023	1 2 25
often the BENDING AND IN TORSION =	24023	
TRUDY C.N.I.I. MORSKOGO FLOTA 22, 1959, P. 45-	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
and the second of the second o		
THIS 15 A SHORT DESCRIPTION OF SIMPLE EXPERIME	24.23	
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L IN AIR ARD IN SALL WATER, RESERVED OF CER	24023	
APPEARS THAT THE APPRECIANLE DIFFERENCES OBSER	24023	
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OR TESTS IN SALT WATERS ESPERALET TON CANOLIN		7
NUMBER OF CYCLES.		
CORRUSTON		1
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TATIOUS TESTING	24023	
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EPOXY RESTMS AND THEIR APPLICATION IN SHIP R  24026 201 EPAMIR:		Wednesday Acceptance		302 302
EPMIR. 24026 251 TRUDY C.N.I.T. MORSKOGO FLOTA 25, 1959, P. 3-3 24026 251 THIS IS A VERY DETAILED DESCRIPTION OF FECHANI 24026 501 CAL PROPERTIES OF A NUMBER OF EPOXY RESINS. C 24026 502 OMPOSITIONS ARE GIVEN AND RECOMMUNDED COMBINAT 24126 502 10NS WITH VARIOUS SIEELS AND OTHER METALS ARE 24026 505 ES REGOMMENDED PRACTICES FOR USE OF SUCH EPOXY 24026 505 MATERIALS IN SHIPBUILDING AND REPAIR. 24026 701 METALES GEUTING 24026 702 SHIPS FERBUR 24026 703 REPAIR. SHIPS 24026 704 ADHESIVES 24026 705 BELOCHUK.G.A. 24027 101 ARE WELDING OF ALUMINAA AND OF ITS ALLOYS WI 24027 201 THISTEEL WHEN A LAYER CF 44041010 IS ATTACHED 24027 202	FROXY RESING AND THETP APPLICATION IN SHIP R			202
TRUDY C.N. I. I. MORSKOGO FLOTA 25, 1959, P. 3-3  24026  251  24026  252  THIS IS A VERY DETAILED DESCRIPTION OF TECHANI  LOUGH PROPERTIES OF A NUMBER OF EPOXY RESINS. C.  OMPOSITIONS ARE GIVEN AND RECOMMENDED COMBINAT  1004 WITH VARIOUS STEELS AND OTHER METALS ARE  CTVEN. THE SECOND PART OF THE ARTICLE GESCRIB  ES RECOMMENDED PRACTICES FOR USE OF SUCH EPOXY  MATERIALS IN SHIPBUILDING AND REPAIR.  QUINNG, METALS  SHIPS, PEPAIR  REPAIR. SHIPS  ADHESIVES  24026  703  24027  1016  ARE WELDING OF ALUNING AND OF ITS ALLOYS WI  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24027  24028				žez
THIS IS A VERY DETAILED DESCRIPTION OF TECHANI  CAL PROPERTIES OF A NUMBER OF EPOXY RESINS. C  OMPOSITIONS ARE GIVEN AND RECOMMUNDED COMBINAT  IONS WITH VARIOUS STEELS AND OTHER METALS ARE  CIVEN. THE SECOND PART OF THE ARTICLE DESCRIB  ESCREGOMMENDED PRACTICES FOR USE OF SUCH EPOXY  MATERIALS IN SHIPBUILDING AND REPAIR.  GEVING: METALS  GEVING: METALS  CAUCA  TOL  SHIPS. PEPAIR  REPAIR. SHIPS  24026  704  ADD OF ITS ALLOYS WI  24027  BELOCHUK.G.A.  ARC WELDING OF ALUMINIMA AND OF ITS ALLOYS WI  THISTEEL WHEN A LAYER 25 ALUMINIMA IS ATTACHED				251
CAT PROPERTIES OF A NUMBER OF EPOXY RESINS. C OMPOSITIONS ARE GIVEN AND RECOMMENDED COMBINAT 10NS WITH VARIOUS STEELS AND OTHER METALS ARE GIVEN. THE SECOND PART OF THE ARTICLE DESCRIB 24026 ES RECOMMENDED PRACTICES FOR USE OF SUCH EPOXY MATERIALS IN SHIPBUILDING AND REPAIR. 24026 GETTING: METALS GETTING: METALS SHIPS REPAIR. 24026 ADHESIVES 24026 ADHESIVES 24027 BELGGHUK.G.A. BELGGHUK.G.B.			and the second s	252
OMPOSITIONS ARE GIVEN AND RECOMMONDED COMBINAT.  10NS WITH VARIOUS STEELS AND OTHER METALS ARE  GIVEN. THE SECOND PART OF THE ARTICLE DESCRIB  ES RECOMMENDED PRACTICES FOR USE OF SUCH EPOXY  MATERIALS IN SHIPBULLDING AND REPAIR.  GEVING: METALS  GEVING: METALS  SHIPS  CAU26  701  SHIPS  ADHESIVES  24027  BELGCHUK.G.A.A.  AND OF ITS ALLOYS WI  THY STEEL WHEN A LAYER CF ALUMINIUM IS ALTACHED  24126  503  504  504  505  506  507  607  607  607  607  607				. <u>5</u> 02
10NS WITH VARIOUS STEELS AND OTHER METALS ARE. 24026 50% GIVEN. THE SECOND PART OF THE ARTICLE DESCRIB 24026 50% ESS RECOMMENDED PRACTICES FOR USE OF SUCH EPOXY 24026 500% MATERIALS IN SHIPBUILDING AND REPAIR. 24026 70% METALS GEUTING 24026 70% GEUTING 24026 70% APPRICE SHIPS 24026 70% ADHESIVES 24027 010 BELOCHUK.G.A. 24027 101 FARE WELDING OF ALUMINAL AND OF ITS ALLOYS WI 24027 201 THISTEEL WHEN A LAYER OF ALUMINIAL AND OF ITS ALLOYS WI 24027 201 THISTEEL WHEN A LAYER OF ALUMINIAL AND OF ITS ALLOYS WI 24027 201 THISTEEL WHEN A LAYER OF ALUMINIAL AND OF ITS ALLOYS WI 24027 200 200 200 200 200 200 200 200 200				* 当わく * うわく
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### 15   ES REGOMMENDED PRACTICÉS FOR USE OF SUCH ÉPOXY 24026 507 MATERIALS IN SHIPBULLDING AND REPAIR. 24026 507 METALES GEUTING 24026 701 GEUTING; METALES 24026 702 SHIPS 24026 704 ADHESIVES 24026 705 24027 016 BELOGHUK.G.A.C. 24027 016 SARG WELDING OF ALUNINIA AND OF ITS ALLOYS WI 24027 201 THISTEEL WHEN A LAYER COLUMINIUM IS ATTACHED 24027 202		* '	7	ล็จิร
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GEUTING; METAL'S  SHIPS; PERAIR  24026, 703  REPAIR: SHIPS  24026 704  ADHESTVES  24027 016  24027 016  BELECHUK: G.A  PARC WELDING OF ALUMINIM AND OF ITS ALLOYS WI  THISTEEL WHEN A LAYER CT. 44 UMINION IS ATTACHED  24027 202	高大震撃を開発する。1.3 一種があり、1.3 19 19 19 19 19 19 19 19 19 19 19 19 19			507
\$\frac{1}{2}\$\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\frac{1}{2}\$\fra			•	#01
REPAIR. SHIPS 24026 704 ADHESIVES 24027 016 24027 016 BELECHUK. G.A. 24027 101 *** ZARC WELDING OF ALUMINA AND OF ITS ALLOYS WI 240.7 201 THISTEEL WHEN A LAYER CT ALUMINION IS ATTACHED 24027 202			•	
ADHESIVES 24027 016 24027 016 BELGCHUK.G.A. 24027 101 PARC WELDING OF ALUMINA AND OF ITS ALLOYS WI 240.7 201 THISTEEL WHEN A LAYER CT ALUMINION IS ATTACHED 24027 202	OF DWID SHIPS	· .	* * *	* 2* · · ·
24027 016 BELOCHUK.G.A. 24027 101 PARC WELDING OF ALUNIAMA AND OF ITS ALLOYS WI 246.7 201 THISTEEL WHEN A LAYER CT ALUMINIUM IS ATTACHED 24627 202	ADHESIVES	* 1,46		54
BÉLOGHUK GGA . 24027 131 ZARG WELDTING OF ALUMINAM AND OF ITS ALLOYS WI 240.7 201 THISTEEL WHEN A LAYER OF ALUMINIUM IS ATTACHED 24027 202	受け書きたとくが能感があった。 たんが はんかん とくにはない とうだい はんしゅう しょうしょう しょうしょう しょう しょう しょう はんしょう はんしょく はんしん はんしょく はんしょく はんしょく はんしょく はんしょく はんしょく はんしょく はんしょく はんしん はんしょく はんしょく はんしん はんしん はんしん はんしん はんしん はんしん はんしん はんし	22	1027	
THISTEEL WHEN A LAYER C? 4LUMINIUM IS ATTACHED 24027 202	BELEOCHUK • G • A • ·			101
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	64-67
WELDING TRUE TOURS	24.02
METALS: MOLITY	24527
MELTIME METALS	24.27
`249gs	26026
THE THIRD PROPERTY OF THE PARTY	24023
ON CLASSIFICATION AND ON LITE IT LIKE OF CHACK	2402a 201
ING IN ALLAED STRUCTURES .=	24528
TRUDY LEXINGRADSKOGO KORABLIST WITCHCOOL) INCO	
ATUTA, 35, 1962. P. 19427	24028
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EDLO. RESPECTIVELY. THE LATTER : FRESENT LOCA	4 24028
LEGITTLE FRACTURES. RECOMMENDATIONS FOR PREM	
ENTION OF COLD GRACKS ARE REVIEWED.	24928
METALS, WILDING	- 24028
WELDING, WITALS	24028 7021
240 29	24029
LASERENZ•À•	24029
MECHANICAL PREPARATION OF SHIPMUILDING STEEL	
	24029
ŠUŘEÁČES + + - při tee (M), baban ja l. ni joaj : Š. ajoaj j	24029 251
SCHIFF UND HAREN 149 JUL 19629 P. 609-611	- 「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元」では、「元
THE IS A SHORT BUT RATHER DETAILED ACCOUNT ON	The state of the s
PROPER PREPARATION TECHNIQUES OF STEEL SURFACE	C 24629 502
₽ <b>ĜŜ∙</b>	24025
THE MAIN PREREQUISITE IS A COMPLETE REMOVAL OF	F 24029 304 3
THE RULLING SCALET THEN, ZINC-DASED PRIMIR!	24029 5031
AINTS ARE RECOMMENDED.	24029
GORROSTEN PROTECTION	24029
PROTECTION: CORROSION	24029 762
	24029 703
PAINTS	Ž405C
<b>24030</b>	24050
WOLTZ-P-	
MODERN SHIPBUILDING AND THE DEVELOPMENT OF	s 24030 201
T BEELS € €	24030 202
JAHRAUCH SCHIFFBAUTECHN GES. 59. 1965. P. 38-	6 24030 251 <b>(</b>
2.	24030 2524
THIS IS A GENERAL LECTURE ON THE TITLE TOPIC	ن 24030 501 £
EALING RATHER WITH THE HISTORY OF THE SUBJECT	24030 502
MORE RECENT AND FUTURE TRENDS ARE COMMECTED	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
WITH THE STEEL ST. 52 (ULTIMATE STRENGTH AHOU	こうこう マー・ステー・スティー・スティー こうじんがん かんだん 最後のはずめ
75 RSI). VARIOUS TECHNOLOGICAL PROBLEMS, AND	The first that the second of t
13 KSI) • VAKIUUS TEUMMULUGICAL EROPLEMS ANN	
ADVANTAGES ARE NOTED.	24030 506 24030 703
STEELS. NEDIUM STRENGTH	24030
MEDIUM STRENGTH STERLS.	24030 702
SHIP-UILDING STEELS	24030 703
STEELS. SHIPBUILDING	24030 704
24031	24631
AVGEN & K.	24031
ON DEVELOPMENT PRODUCTION AND TESTING OF S	H 24031 201 4
IPBUIL TNG STEELS	24031 202
JAHRHUCH SCHIFFRAUTECHN, GFS. 59, 1965. P. 63	
	246 1
32.	
THE TOPIC	•
State of the state	
The second secon	
The state of the s	

e de la companya del companya de la companya del companya de la co		-
2 A LARGE VARIETY OF LOW MENT M DAIN HITCH STRING		
A GTM STOLLS IS LISTED AND THEIR PROPERTIES. CON	24.31	302 503
SPOSITION AND MELOANILITY AND EVALUATED A SPORT	24.31	
Section 15 of Various Rubistuse and Electus added	20631	
RX PRODUCTION VITE to ARE RECEDED AND A LIST OF	24.001	
- CONTEMPORARY TESTING HELPHODS: INCEDUDING MELDAN	24622	
	24031	
	24031	
STEELS. SEIPHOILDING	24.31	701
	24031	
	24631	
	24631	
table was a company of the company o	24031	765
A Mariana		₹ 766
San Harrison Company of the Company	24032	
The state of the s	24032	
THE COMPANIES OF METAL SECOND FOR A SECOND S	24032.	
The state of the s	24032	
	246325 24032	4, 4,
	24032 24032	
	24052 24052	
	24032	
SERFACESY THE INPLUENCE OF SCALE, MODERN PREPARATION OF	2403,2	304
SETION AND PROTECTION OF SURFACES ALL PUSSIMEL W	24632	509
MAYS OF IMPROVED CATS AS DACEN ON ACCENT RESLARC	24%3	256
TH RESULTS. AR EXTENSIVE DISCUSSION IS INCLUDE	24032	
D AND ABOUT 38 REFERENCES LISTED. TRANSLATION	24032	201
OPTIONAL.	24032	
COATINGS.	24032	⇒ _ 701
CORRUSION ERCIECTION S.	24.132	702
PROTECTION. CORRUSTON TO A STATE OF THE STAT	24032	703
	24032	194
	24932	795
	24032	
THE PARTY OF THE PROPERTY OF THE PARTY OF TH	24032	76.7
24053	24032	37 \$ 10°
	245393 24635	The second secon
BORONZE PROFLELLAS AND THEIR MAINTENANCES	14033 Žačos	
STRUDENCE CHIEF COLOR CONTROL	24.35.	281
Mark the first t	24034	生になる
Separation of the second of th	24333	30 501
RENGES BETWEEN THE THREE MAIN GROUPS OF COPPER	24033	532
THISE APLOYS USED FOR LARGE PROPELLER MARUFACTS	24655	3 503
URE THOSE FICLUDE HIGH-TENSILE FRASSIS, ALUM	24635	304
THUM BRONE TO THE FANGANESS ALD TAUM BRUNZES	24.33	₹ 535
SPECIFICS N_PAIR AND MAINTENANCE PROCECURES MUS	Ž4Q3 <i>5</i>	<i>5</i> - 505
TOBE FOLLOWED ACCORDING, TO THE PROPELLER MATER	24653	3.37
	24035	ું છેલ્
- ANDERA THE CHAME FEET TO THE TOTAL TO THE TENT OF	24033	3762
CANADA CARA CARA CARA CARA CARA CARA CARA C	24033	702
#####################################	24033	
	2409 <i>3</i> 73	704
The state of the s	24033	
	24033 24034	
Water Caragon Control of the Control	24034 24034	201
The same of the sa	24034 24834	201
YS WITH REGARD TO THEIR USE IN SHIPLUILDING.	24054 .	
Compared to the contract of th	240342	251
	پۇ چىنى سىسى مىسى	
	. <del></del>	

THE RECESSION OF THE PROPERTY	The same and the same of the s
26.34	252
13 At the control of the section of the control of	391
24134 sometimes of the State of the All Control 24134 sometimes of the State of the	₹502 202
- GPPLA + LLONG + - 1010 - LLO ANDOLO PARE + 10 - LANGO - 24054 - 24054	⊹503 `\3504
TVNN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3505
As 4:5 on An Singer	.50s
10% A ROT ARE & VILLED - ACAIN OPERING THE ATTER 1 24034	<b>∌</b> ¢7
TEM TO CALL IN TACHES PROMESTS AND PRINTERTION 24636  ARRIVOT WERE THE PROMEST TO ARREST 24634	35C8
- 10% _ 10% helioto - 24034;	510
Q08(t0\$10b) 24534 24534	3701
- CONROS-ON PROTACTING. 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24334 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 24344 (2) 2	10/702 10/402
24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24934 - 24944 - 24944 - 24944 - 24944 - 24944 - 24944 - 24944 - 24944 - 24944	762 704
REGISTANCE, CONNOSION - 24034	76:
CONTINUS 24V24	706
MATERIALS SELECTION SECURIOR S	7.57
- Selection) - Materials	708 A10
PFINUIG. 8. 24035	%i61
FRACTURES OF GRANKSHAFTS CAUSES AND FIELD - TEACHER TEACHER	201
XAMPLES.= . ZAUSS- 1905, P. 385 . A COLOR ZAUSS- ZA	202 251
JAIRFUCH SCHIFFFAUTECHN。 6EST 09: 1969, P. 335 (4)255 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (24)35 (2	252
MAIN REASONS FUR FRACTURES OF CRANKSHAPTS ARE	
REVIEWED AND EVALUATED. THEY ARE DIVIDED INTO \$ 5 24035	202
TIVE SKULPS CONSTAUGITON EFFECTS, MATERIAL Q ST TO 724085	503
TR PARKICATION ERACKS, MIAK SUPPORTS AND MISALT  GNARNTS, E-FECT OF MEAR IN SURVICE, ACCIDENTAL 10 12 24025	304 303
IFFICTS, OVEREGADING COLLESIONS ALL THOSE G 1	506
KOUPS ARE DISCUSSED IN SOME DETAIL AND PRACTIC SE 24055	507
AL EXAMPLES AND DESCRIBED. A LOSG DISCUSSION 24035	506 360
FAILURE 24035	701
SHIPS, DAMAGLY	702
DAMAGE, SHI'S	ှာ်ဝင်
SHIPS, ENGINES ENGINES, SHIPS.	1504 105
240 36	1.2010
24036	101
MODERN FINE-GRAIVLE STEELS - CRITICAL EVALUA 24036	201
TION OF THEIR WELDARILATY, = 177 SECOND HAPLEY, OCT 1461, Re 956-560 SECOND HAPLEY, OCT 1461, RE 956-5	202
FIR TOTA STORT LECTURE ON BASIC HEATURES OF F	501
THE-SHAIRLE STELLS. MATH ALEUYING LLENCHTS AN - 24036	2502
DINTIN INTELLACES ANEXELISTED AN EVALUATION TO 24036	503 504
SIZELS, LOWALLOY	701
LO! ACLOY-STEELS	702
THETY LS, VELDING	705
WELD ING. AETALS 24036	704 010
ZEYEM-N-L.	101
NEW TOLVELORMENTS & SELDING METALLURGY AND EXA	201
MPLES OF APPLICATION OF MULLEU STEELS AND OTHE	202
R FAETALS. # 24037. SCHIFF UND HAFERS OCT 1961. P. 97 4380	202 201
THIS IS IN SECURD PART OF A BROAD PLYIEN OF L.	501
CITERALUNE ON THE TITLE TUFIL. 243 REPERLINES	502
APPLLISTED THIS BAKT INCLUDES NEW PETALS AND	503

THE MALL

ALLOYING ELEMENTS, NAMELY TITANIUM, MOLYHULNU M. URANIUM TANTAL AND NIOWIUM, BERYLLIUM AND O	24637 24637	504 505
THERS. CLASSICAL NON-FERROUS METALS ARE THEN .	24557	၁၀၀
TREATED COPPER, ALUMINIUM AND OTHER LIGHT MET	24037	2 <i>61</i>
ALS.	24037	508
MATERIALS. SELECTION	24637	701
SELECTION, MATERIALS	24037	752
METALS. WELDING	24037	763
WEIDING, METALS -	24037	764

Martin and States

// 203 800 / nd.205.800300,000 Up of 13-1		10.53.
// LXEC CAPOLIS.		
24036	24538	011
LAPIETS, T.T.	24036 24036	101
A FERRIOD OF DESCRIPTIONS WISH S SECTOR CO. 3	24038	201
OSTON PROBLEM OF OF MUTALS IN COMPANY. =	24038	202
INDUSTRIAL LABORATORY, 26, "18 10-3, 27.313-31	24038	251
2	24038	252
IT IS SHOUL THAT THE COPROSTOR PARTS INTOLARD	24038	501
IN COLUNING DIFFERENCE ADMALS CANNAL A AND DED	24038	502
FROM THE DIFFARINCE BASHMEN THREE PROBLESS TO	24038	503 50/:
TRUTAL IN A CIVEN NUMBER OF COLUMN TO THE LOW	24038	504 505
OF CORPOSION RAND OF METALS IN CONNECT IS THE	24038 24038	505 506
CORPOSION CUPRENT INTENSITY.	24038 24038	701
CORPOSION CORROSION PRSIGNAMOR	24038 24038	707 <b>7</b> 02
RESISTANCE, CORPOSTOR	24038	702
- KASISIARCH, COM OSION - CORROSTON PROLEOMINU	24038	704
PROTECTION, CORROGION	24038	705
24039	24030	001
RATNED, S. 1.	24034	101
TRACCALLA ARTHUR ERBURADO CON ARTHURA	24039	201
STATE PRESS FOR THE DEFENSE DEPENDENCE OF ANTI- DECOV.	24039	351
1959	24039	352
THIS IS A REVIEW OF THE TITLE WOOD OF I. V. ME	24039	501
DPJAYCDY, AS IT APPRIED IN THE SOUTHAN STORES	24039	502
RIAL LABORATORY, 26, 232 1960, p. 207-268.	24039	503
FATIGUE TESLING	24039	701
TESTING, PATIGUE	24039	702
FRACTURE TESTING	24039	703
TESTING, FRACTURE	24039	704
24040	24040	011
GURVICH, A.K.	24040	101
PRODUCTION OF A VISIBLE IMAGE OF THE CEOST S	24040	201
ECTION OF A BUIL WELD BY MEANS OF PRESASONICS.	24040	202 203
TO THE TENED OF THE CONTROL OF THE TOWN OF THE STATE OF T	24040 24040	20.3 25.1
THIS IS A DESCRIPTION OF AN ULTRASOUTE TYPERING.	24040	251 501
THIS IS A DESCRIPTION OF AN OLD ASSULE TYPINGS  ENT FOR DETECTION OF WELD FLANS. THE TOTAL STATE	24040	502
T PROORDS AUTOMOTICALLY THE SIGNALS PROCESSES.	24040	502 503
TOUCORDS AUTOMAGICALLY THE SIGNALS OF CHIVED. WELDABILITY, MESTING	24040	701
TESTING, WFLDABILITY	24040	702
24041	24041	011
VOROB'EV.A.3.	24041	101
GAVRILOVA, F. A.	24041	102
KULESHOV, D. JA.	24041	103
THE EFFECT OF THE TREQUENCY OF LOLDING OF TH	24041	201
E FATIGUE STRENGTH OF ALUMINUA ALIOYS. =	24041	202
INDUSTRIAL LABORATORY, 29, OCT 1963, P. 1352-1	24041	251
354.	24041	252
THIS IS A SHORT APPLICE WHICH ILLUST SATES THE	24041	501
INCREASE OF FATIGUE LIFE WITH FREQUENCY IN TES	24041	502
TS OF THESE SPECIMENS WITH STRESS CONCENTRATIO	24641	503
N. True	24041	503
FATIGUE TESTING	24041	701
TESTING, FATIGUE	24041	702
24042	24042	011
SOGRISHIN, JU.P.	24042 24042	101
SUVOROV, P.G.	641.45	102

<b>A *****</b> * *		
KOBYAKOVSKTI, N. F.	24042	103
HIGH-SPEED EXPLOSIVE-ACTUATED INFACT TESTING	The state of the s	201
MACHINE. =	24042	202
**INDUSTRIAL LARGYATORY, 29, SEP 1963, P. 1235-1		251
236 MUTE TE A SUCHE DESCRIPTION OF A UTGULUTION OF THE	24042	252 501
THIS IS A SHORT DESCRIPTION OF A HIGH-VELOCITY MACHINE WHICH CAN OPERATE UP TO 50 INJSEC AND		502
DEVELOP IMPACE ENERGY OF 12000 FT-LBS.		502 503
TESTING METHODS	24042 24042	701
METHODS, TESTING	24042	702
24043	24043	011
KOZLOV, I. A.	24043	101
LEBEDEV, I.V.	24043	102
EXPERIMENTAL INVESTIGATIONS OF THE STRESSED	24043	201
STATE BEYOND THE ELASTIC LIMIT. =	24043	202
INDUSTRIAL LABORATORY, 29, SEP 1963, P. 1224-1		251
227	24043	252
THIS IS A DESCRIPTION OF A METHOD WHICH ENABLE		501
S MEASUREMENT OF PLASTIC STRAINS BY WIRE STRAI		502
N GAUGES. THE VALUES OF STRAIN ARE CONVERTED	24043	503
TO STRESS VALUES.	24043	504
EXPERIMENTAL METHODS	24043	701
METHODS, EXPERIMENTAL	24043	702
MECHANICAL PROPERTIES	24043	703
24044	24044	011
BARANOVA, N.B.	24044	101
PLOTTING OF CRACKING CURVES FOR PARTS WITH R		201
ESPECT TO THE RESULTS OBTAINED IN TESTING THEM		20?
TO FAILURE.=	24044	203
INDUSTRIAL LABORATORY 29, SEP 1963, P. 1221-12		251
23	24044	252
THIS IS A DESCRIPTION OF AN EMPIRICAL METHOD F	الماكنون والتنافي والمراجع والمناف	501
OR DETERMINING THE CRACKING CURVE WHICH INDICA		502
TES THE OCCURRENCE OF THE FIRST CRACK, FROM A	<u>24044</u> 24044	503
KNOWN FAILURE CURVE, WHICH SHOWS THE STRESS VS		504 505
. NUMBER OF CYCLES TO FAILURE FOR A SPECIFIC	24044	
MACHINE PART. PATIGUE TESTING	24044 24044	506 701
TESTING, FATIGUE	24 44	701
FAILURE	24044	703
24045	24045	011
BELYAEV, S.F.	24045	101
METHOD FOR DETERMINING THE CRACKING SENSITIV		201
ITY OF HIGH-STRENGTH MATERIALS UNDER TENSILE S		202
TRESS.=	24045	203
INDUSTRIAL LABORATORY, 29, SEP. 1963, P. 1217-	24045	251
1220.	24045	252
AN EMPIRICAL METHOD IS DISCUSSED WHICH RELATES	24045	501
THE ULTIMATE STRENGTH AT FRACTURE OF A NOTCHE	24045	502
D SPECIMEN TO ULTIMATE STRENGTH OF A SMOOTH SP	24045	503
ECIMEN.	24045	504
HIGH-STRENGTH STFELS	24045	701
STEELS, HIGH STRENGTH	24045	702
MATERIALS, BRITTLENESS	24045	703
BRITTLENESS, MATERIALS	24045	704
TESTING METHODS	24045	705
METHODS, TESTING	24045	706
24046	24046	011
PINKEL, V.M.	24046	101

	-	
O KUTKIV.1.A.	24046	102
HIGH-SOFFD FORIOR DICHON COMPOS FOR SIMPLY	24046	201
NG THE GROUPE OF CENCES ON CHETAIN MATERIALS. =	24046	202
O INDUSTRIAL LARGLAMORY, 29, SAP 1963, P. 1210-1	24046	251
216.	24046	252
THIS IS AN NAMENSIVE ARMICLE WHICH DESCRIBES V	24046	501
O ARTOUS PETHODS OF HIGH-SPEND PHOTOGRAPHY AND T	24046	502
HEIR USA IN CRACK GROWTH STUDIES. — FRACTURE TESTING	24046	503
	24046	701
O TESTING, FRACTURE 24047	24046 24047	702 911
ZARFTSYII, F.N.	24047	101
O KIRERVA, A.F.	24047	102
A PAPTO METHOD FOR DETERMINING THE TENDENCY	24047	201
OF DURALUMIN TYPE ALLOYS TO COLASSION CRACKIN	24047	202
O	24047	203
INDUSTRIAL LABORATORY, 29, SEP 1963, P. 1193-1	24047	251
196	24047	252
O SOLUTIONS AND SUGGESTED FOR SPEEDING UP THE CO	24047	501
REDSION CRACKING TESTING OF DURAIDMIN TYPE ALL	24047	502
OYS. THE SOLUTIONS CONTAIN NACL, HNO3 AND KNO 3. SOME THAT RESULTS ARE SHOPN.	24047	503
CORROSION	24047 24047	504 701
MATERIALS, BRITTLENESS	24047 2404 <b>7</b>	702
O BRITTLENESS, MATERIALS	24047	703
24048	24048	011
BIRGER, I.A.	24048	101
METHODS FOR DETERMINING RESIDUAL STRESSES IN	24048	201
BARS AND PLATES.=	24048	202
INDUSTRIAL LABORATORY, 28, MAY 1962, P. 627-63	24048	251
_ ·•	24048	252
THIS IS AN EXTENSIVE ARTICLE WHICH GIVES BOTH A REVIEW OF THE TITLE METHODS AND SUGGESTS A N	24048 24048	501
EN METHOD WHICH SHOULD BE MORE ACCUPATE, FOR D	24048	502 503
ETERMINATION OF RESIDUAL STRESSES IN BARS AND	24048	504
PLATES OF MECTANGULAR SHAPE.	24048	505
O RESIDUAL STRESSES	24048	701
EXPERIMENTAL METHODS	24048	702
METHODS, EXPERIMENTAL	24048	703
24049	24049	011
KRAMARENKO, O.JU.	24049	101
ASSESSMENT OF THE SCATTER OF STRESSES IN PAT -	24049	201
INDUSTRIAL LABORATORY, 28, JUNE 1962, P. 753-7	24049 24049	202 251
58.	24049	252
THIS IS A REVIEW APTICLE ON THE TITLE TOPIC.	24049	501
IT SHOWS THE ADVANTAGES OF ASSESSING THE SCATT	24049	502
ER FROM STRESSES BY PLOTTING THE CUPVES OF THE	24049	503
O PROBABILITIES OF FAILURE AND SERVICE LIFE AND	24049	504
ALSO FOR DETERMINATION OF PATIGUE LIMIT FOR V	24049	505
ARIOUS PROBABILITIES OF FAILURE.	24049	506
FATIGUE, TESTING	24049	701
TESTING, FATIGUE STATISTICAL ANALYSIS	24049	702
O 24050	24049 24050	703
STEPNOV, M.N.	24050	101
DETERMINING THE RESPONSE THRESHOLD WITH RESP	24050	201
O ECT TO CYCLES FOR FATIGUE TESTS ON ALUMINUM AL	24050	202
LOYS.=	24050	203
$\mathbf{O}_{++}$		

INDUSTRIAL LAPCRATORY, 23, JULY 1962, P. 984-9 86  BASED ON A COBRETATION ANALYSTS OF FAMIGUE TES T RESULTS, FORMULAS HAVE BEEN OPTATAMO FOR AN INDIRECT DETERMINATION OF THE RESPONSE THRESHO LD WITH RESPECT TO CYCLES FOR ALUMINUM STRUCTU RAL ALLOYS SO THAT IT IS POSSIBLE TO PLOTE FATI GUE CURVES AT SMALL PROBABILITIES OF MATLURE, INCLUDING ZERO, WITH A LIMITED NUMBER OF TEST SPECIMENS. FATIGUE TESTING TESTING, FATIGUE STATISTICAL ANALYSIS 24051 STEPNOV, M.N.	24050 24050 24050 24050 24050 24050 24050 24050 24050 24050 24050 24050 24051 24051	251 252 501 502 503 504 505 506 507 508 701 702 703 011
BASED ON A COBRETATION ANALYSTS OF FAMIGUE TES T RESULTS, FORMULAS HAVE BEEN OPTATHED FOR AN INDIRECT DETERMINATION OF THE RESPONSE THRESHO LD WITH RESPECT TO CYCLES FOR ALUMINUM STRUCTU RAL ALLOYS SO THAT IT IS POSSIBLE TO PLOT PATH GUE CURVES AT SMALL PROBABILITIES OF FATLURE, INCLUDING ZERO, WITH A LIMITED NUMBER OF TEST SPECIMENS. FATIGUE TESTING TESTING, FATIGUE STATISTICAL ANALYSIS 24051 STEPNOV, M.N.	24050 24050 24050 24050 24050 24050 24050 24050 24050 24050 24051	501 502 503 504 505 506 507 508 701 702 703 011
T RESULTS, FORMULAS HAVE BEEN OPTAINED FOR AN INDIRECT DETERMINATION OF THE RESPONSE THRESHOLD WITH RESPECT TO CYCLES FOR ALUMINUM STRUCTURAL ALLOYS SO THAT IT IS POSSIBLE TO PLOT FATIGUE CURVES AT SMALL PROBABILITIES OF MATLURE, INCLUDING ZERO, WITH A LIMITED NUMBER OF TEST SPECIMENS.  FATIGUE TESTING TESTING, FATIGUE STATISTICAL ANALYSIS 24051 STEPNOV, M.N.	24050 24050 24050 24050 24050 24050 24050 24050 24050 24050 24051	502 503 504 505 506 507 508 701 702 703 011
INDIRECT DETERMINATION OF THE RESPONSE THRESHO LD WITH RESPECT TO CYCLES FOR ALUMINUM STRUCTU RAL ALLOYS SO THAT IT IS POSSIBLE TO PLOT FATI GUE CURVES AT SMALL PROBABILITIES OF MATLURE, INCLUDING ZERO, WITH A LIMITED NUMBER OF TEST SPECIMENS. FATIGUE TESTING TESTING, FATIGUE STATISTICAL ANALYSIS 24051 STEPNOV, M.N.	24050 24050 24050 24050 24050 24050 24050 24050 24051 24051	503 504 505 506 507 508 701 702 703 011
LD WITH RESPECT TO CYCLES FOR ALUMINUM STRUCTU  RAL ALLOYS SO THAT IT IS POSSIBLE TO PLOT FATI  GUE CURVES AT SMALL PROBABILITIES OF TATLURE,  INCLUDING ZERO, WITH A LIMITED NUMBER OF TEST  SPECIMENS.  FATIGUE TESTING  TESTING, FATIGUE  STATISTICAL ANALYSIS 24051  STEPNOV, M.N.	24050 24050 24050 24050 24050 24050 24050 24050 24051	504 505 506 507 508 701 702 703 011
RAL ALLOYS SO THAT IT IS POSSIBLE TO PLOT PATH GUE CURVES AT SMALL PROBABILITIES OF MATLURE, INCLUDING ZERO, WITH A LIMITED NUMBER OF TEST SPECIMENS. FATIGUE TESTING TESTING, FATIGUE STATISTICAL ANALYSIS 24051 STEPNOV, M.N.	24050 24050 24050 24050 24050 24050 24050 24051	505 506 507 508 701 702 703 011
GUE CURVES AT SMALL PROBABILITIES OF MATLURE, INCLUDING ZERO, WITH A LIMITED NUMBER OF TEST SPECIMENS. FATIGUE TESTING TESTING, FATIGUE STATISTICAL ANALYSIS 24051 STEPNOV, M.N.	24050 24050 24050 24050 24050 24050 24051	506 507 508 701 702 703 011
INCLUDING ZERO, WITH A LIMITED NUMBER OF TEST SPECIMENS. FATIGUE TESTING TESTING, FATIGUE STATISTICAL ANALYSIS 24051 STEPNOV, M.N.	24050 24050 24050 24050 24050 24051 24051	507 508 701 702 703 011
SPECIMENS.  FATIGUE TESTING  TESTING, FATIGUE  STATISTICAL ANALYSIS 24051  STEPNOV, M.N.	24050 24050 24050 24050 24051 24051	508 701 702 703 011
PATIGUE TESTING TESTING, PATIGUE STATISTICAL ANALYSIS 24051 STEPNOV, M.N.	24050 24050 24050 24051 24051	701 702 703 011
TESTING, FATIGUE STATISTICAL ANALYSIS 24051 STEPNOV, M.N.	24050 24050 24051 24051	702 703 011
STATISTICAL ANALYSIS 24051 STEPNOV, M.N.	24050 24051 24051	703 011
24051 STEPNOV, M.N.	24051 24051	011
STEPNOV, M.N.	24051	
	= ' '	
	24001	201
EVALUATING THE PROBABILITY OF FAILURE IN PAT  IGUE TESTS.=	24051	201
INDUSTRIAL LABORATORY, 28, JULY 1962, P. 886-8	24051	251
88.	24051	252
A FORMULA IS PROPOSED FOR EVALUATION OF THE PP	24051	501.
ENT OF RESULTS OF FATIGUE AND OTHER TESTS. IT	24051	503/
IS AN ALTERNATIVE TO WEIBULL'S FORMULA AND GI	24051	504
VES A SMALLER SYSTEMATIC ERROR.	24051	505
STATISTICAL ANALYSIS	24051	701
FATIGUE TESTING	24051	702
TESTING, FATIGUE	24051	703
24052	24052	011
LINDTROP, N.G.	24052	101
USE OF THE DISTRIBUTION THEORY OF EXTREME VA	24052	201
LUES OF A SAMPLE IN THE EVALUATION OF STRENGTH	24052	202
TESTS.=	24052	203
INDUSTRIAL LABORATORY, 29, JUL 1963, P. 902-90	24052	251
5	24052	252
A STATISTICAL METHOD IS DESCRIBED WHICH CONSID	24052	501
ERABLY REDUCES THE AMOUNT OF WORK NEEDED FOR E	24052	502
VALUATION OF TESTS PERFORMED FOR THE DETERMINA	24052	503
TION OF THE LOWER LIMIT OF STRENGTH.	24052	504
STATISTICAL ANALYSIS	24052	701
MECHANICAL PROPERTIES	24052	702
24053	24053	011
BAT, A. A.	24053	101
KOCHETOV, A.I.	24053	102
A STATISTICAL TECHNIQUE FOR EVALUATING FATIG	24053	201
UE TESTS ON STEEL STRUCTURES. =	24053	202 251
INDUSTRIAL LABORATORY, 29, JUL 1963, P. 899-90	24053	251 252
THIS IS A PREVALUATION OF AN EAPLIER METHOD FO	24053 24053	<u> </u>
R DETERMINATION OF A CORRELATION FACTOR BETWEE	24053 24053	502
N THE MAXIMUM CYCLE STRESS AND THE NUMBER OF C	24053	503
YCLES TO FAILURE.	24053	504
STATISTICAL ANALYSIS	24053	701
FATIGUE TESTING	24053	702
TESTING, FATIGUE	24053	703
STRUCTURES	24053	704
24054	24054	011
KARPENKO, G. V.	24054	101
STEPURENKO, V.T.	24054	102
BABEI, TU. I.	24054	103
ON TESTING METALS FOR CORROSION FATIGUE. =	24054	201
चार हाल्ल्यक्राच प्रवच्याच्य इच्छा चण शास्त्रव्य । इस्तिविष्णा शिष्		•

٠.

X1.11.

<b>ა</b>	INDUSTRIAL LATCHATORY, 29, MAY 1963, P. 583-58	24054	251
	4	24054	252
	IT IS SHOWN, THAT THE PROCUPINGS TERM IN ADMIT	24054	501
0	TING THE COPROSIVE WRITING TO THE SPECTARY, THE	24054	502
	MIKING, AND THE ADMISSION OF AIR HAVE SUBSTAN	24054	503
O-	TIAL SEPACT ON THE PATIGUE STRENGTH OF STREET	24054	504
J	NDET COFFOSTOR.	24054	505
	FATTGUE TESTING	24054	701
0	CORROSION	24054 24054	702 703
	CORROSION PRSISTANCE	24054	704
	RESISTANCE, CORROSION	24054	705
0	24055	24055	011
	ZHURAKOVSKII, V.Y.	24055	101
	ACCELERATED METHOD FOR DETERMINING THE TENDE	24055	201
0	NCY TO AGEING OF STEELS.=	24055	202
	INDUSTRIAL LABORATORY, 31, JUN 1965, P. 904-90	24055	251
	5	24055	252
0	AN EMPIRICAL METHOD IS DESCRIBED WHICH DERIVES	24055	501
	THE TENDENCY TO AGEING FROM DYNAMIC HARDNESS	24055	502
0	VALUES MPASURED AT + 20 C AND + 540 C.	24055	503
		24055 24055	701 702
	METHODS, TESTING 24055	24056	011
0	NEHL,F.	24056	101
_	BAERLECKEN, E.	24056	102
	KOCHER, R.	24056	103
0	STRASSBURG, W.	24056	104
	KANN, H.	24056	105
	VAN, LENK, W.	24056	106
0_	NEURAUS, W.	24056	107
	RUTTMANN, K.	24056	108
0	RUBO, B.	24056	109
<b>-</b>	ANNUAL MEETING ON WELDING TECHNOLOGY, 1958.=	24056 24056	201 251
	SCHIFF UND HAFEN, AUG 1958, P. 650-658 THIS IS A COLLECTION OF ABSTRACTS OF 15 LECTUR	24056 24056	501
0-	ES WHICH WERE PRESENTED AT THE 1958 ANNUAL MEE	24056	502
	TING OF THE GERMAN WELDING SOCIFTY. IT DEALS	24056	503
	WITH A BROAD SELECTION OF PAPERS CONNECTED ALS	24056	504
0	O TO WELDING PROBLEMS ASSOCIATED WITH CONSTRUC	24056	505
	TICN OF NUCLEAR REACTORS.	24056	506
	POWER PLANTS, NUCLEAR	24056	701
0	NUCLEAR POYER PLANTS	24056	702
	WELDING TECHNIQUES	24056	703
	WELDING AUTOMATIC	24056	704
O	WELDING MANUAL	24056	705
	WELDING EQUIPMENT	24056 24057	706 001
0	24057 KANFOR,S.S.	24057 24057	101
~	SHIP HULL STEEL.=	24057	201
	STATE PRESS FOR THE SHIPBUILDING INDUSTRY (SUD	24057	351
9	PROMGIZ) LENINGRAD, 1960, 358 PP.	24057	352
-	THIS IS A BOOK ON PHOPERTIES AND USE OF CARBON	24057	501
_	AND LOW-ALLOY STEELS AND ON THEIR USE IN SHIP	24057	502
·	BUILDING. BOTH FUSSIAN AND FOREIGN STEFLS ARE	24057	503
	DISCUSSED. MECHANICAL PROPERTIES, DUCTILITY,	24057	504
_	FRACTURE PESISTANCE AND WELDARILITY OF INDIVI	24057	505
<b>3</b>	DUAL STEELS ARE DISCUSSED WITH SPECTAL CAPE.	24057	506
	THE BOOK CONSISTS OF NINE CHAPTERS. THE HEADI	24057	507
,~~-	and a superior of the superior		

The second

NGS ARE AS FOLLOWS: 1. USW OF WELDING AND IT	24657	507
S INFLUENCE OF DEVELOPMENT OF HULL STREES. 2. CHEMICAL COMPOSITION AND PROPERTIES OF FORFI	<u> </u>	509 510
GN STEELS. 3. CHAPTENT PROUTREMENTS ON HULL S	24057	51
TEELS. 4. CARBON STENLS. 5. LOM-ALLOY WELD	24057	s1;
ABLE STEELS. 6. DUCTILITY AND INTERREDATION	24057	51
OF PHYSICAL AND MECHANICAL PROPERTIES. 7. IN	24057	
PLUENCE OF VARIOUS FACTORS ON BRITTLENESS. 8.	24057	519
ACCEPTANCE TESTS. 9. SELECTION OF STRELS F	24057	510
OR HULLS.	24057	517
SHIPBUILDING STEELS	24057	70
STEELS, SHIPBUILDING	24057	70:
SHIPPUILDING MATERIALS	24057	70:
MATERIALS, SHIPBUILDING	24057	701
MATERIALS, BRITTLENESS	24057	704
BRITTLENESS, MATERIALS	24057	70
LOW-ALLOY STEBLS	24057	701
STEELS, LOW-ALLOY	24057	701
CARBON STEELS STEELS, CARBON	24057	70
24058	24057 24058	710
NAVROTSKII, T. V.	24058	10
TOMPEKO, JU.S.	24058	10:
EFFECT OF STORED ENERGY ON THE FAILURF OF ST	24058	201
EELS OF DIFFERENT PLASTICITIES UNDER IMPACT TE	24058	202
NSION.=	24058	20:
INDUSTRIAL LABORATORY, 29, JAN 1963, P.89-92.	24058	25
STEELS OF VARIOUS PLASTICITIES VERF TESTED IN	24058	50
IMPACT TENSION, BOTH IN PLAIN AND NOTCHED SHAP	24058	50:
ES, WITH DIFFERENT ENERGY STORED IN THE STRIKE	24058	503
R. AMONG OTHER RESULTS, IT IS SHOWN THAT INCR	24058	50:
EASE IN STORED ENERGY INCREASES THE NOTCH SENS	24058	509
ITIVITY, BUT HAS NO EFFECT ON STRAIN.	24058	506
PRACTURE TESTING	24058	70
TESTING, FRACTURE	24058	702
MECHANICAL PROPERTIES	24058	70:
24059	24059	011
IVANOVA, V.S.	24059	10.
SAVITOVA, N. S.	24059	103
RUSSAVSKAYA, I. D.	24059	10:
ON EXPOSING DISLOCATIONS ON STRAINED METALS.	24059 24059	201 202
INDUSTRIAL LABCRATORY, 29, FEB 1963, P. 177-18	24059	25
ABBUDANAN BRUUNTURIA 634 EED 13034 E4 177-10	24059 2405	252 252
TWO REAGENTS FOR DETECTING DISLOCATIONS IN IRO	240	50
N, AND CARBON AND ALLOY STRELS ARE SUGGESTED A	24059	502
ND TESTED. NO PROOF IS OFFERED TO SHOW THAT T	24059	50.
HE OBSERVED PATTERNS REALLY REPRESENT DISLOCAT	24059	504
IONS.	24059	505
EXPERIMENTAL METHODS	24059	701
METHODS, EXPERIMENTAL	24059	702
24060	24060	011
BORZDYKA, A. M.	24060	101
GETSOV, L.B.	24060	102
NEWS ABOUT EQUIPMENT AND METHODS OF TESTING	24060	201
NETALS FOR CREEP AND LONG TIME STRENGTH. (RE	24060	202
VIEW) .=	24060	203
INDUSTRIAL LABORATORY, 29, MAR 1963, P. 330-34	24060	251
3	24060	252

Ĵ

/			
	THIS IS AN EXTENSIVE REVIEW ON THE TITLE TOPIC	24060	501
_	BOTH RUSSIAN AND FOREIGN CONTRIBUTIONS ARE DISCUSSED.	24060	502
	TESTING METHODS	24060	503 701
	METHODS, TESTING	24060 24060	702
	EXPERIMENTAL METHODS	24060	703
•	METHODS, EXPERIMENTAL	24060	704
	MATERIALS TESTING -	24060	705
_	TESTING, MATERIALS	24060	706
	MECHANICAL PROPERTIES	24060	707
_	24062	24062	011
	NAVROTSKII, D. T.	24062	101
•	THE DISTRIBUTION OF THE STRESSES IN LONGITUD	24062	201
	INAL WELDS WITH DIFFERENT LOAD DISTRIBUTION PA	24062	202
	TTERNS.=	24062	203
_	AUTOMATIC WELDING, PEB 1961, P. 10-18	24062	251
	A METHOD IS GIVEN FOR CALCULATING THE STRESSES	24062	501
_	IN LONGITUDINAL WELDS, WITH THE LOAD TRANSMIT	24062	502
	TED IN THREE DIFFERENT WAYS. IT IS CONCLUDED	24062	503
	THAT THE STRESS DISTRIBUTION IS MOST UNIFORM W	24062	504
•	HEN ONE OF THE COMPONENTS TO BE JOINED IS IN T	24062	505
<b>-</b>	ENSION AND THE OTHER IN COMPRESSION.	24062	506
	WELDING TECHNIQUES	24062	701
•-	STRUCTURES 24063	24062	702
		24063 24063	011 101
	MIKHAILOV, S. I. DENISOV, JU. A.	24063	102
	THE STRENGTH OF WELDED JOINTS IN REPEATED IN	24063	201
	PACT CONDITIONS.=	24063	202
	AUTOMATIC WELDING, MAR 1961, P. 37-41	24063	251
•	THIS IS A STUDY IN COMPARATIVE DYNAMIC STRENGT	24063	501
	HS OF WELDED JOINTS WITH VARIOUS PARENT AND DE	24063	502
	POSITED METAL COMPOSITIONS. ALSO, RELATIVE ST	24063	503
•	RENGTH OF THE HEAT AFFECTED ZONE WAS STUDIED.	24063	504
	IN THESE ALLOY STEELS WAS FOUND EXPERIMENTALL	24063	505
	Y	24063	506
	WELDABILITY TESTING	24063	701
_	TESTING WELDABILITY	24063	702
	FATIGUE TESTING	24063	703
	TESTING, FATIGUE	24063	704
	PRACTURE TESTING	24063	705
_	TESTING, PRACTURE	24063 24064	706
	24064 Zarupa T T	24064	001 101
	ZARUBA, I. I. KASATKIN, B. S.	24064	102
	KAKHOVSKII, N.I.	24064	103
<b>—</b>	POTAP'EVSKII, A.G.	24064	104
	CO2 WELDING.=	24064	201
•	GOSTEKHIZDAT USSR, KIEV 1960, 224 PP.	24064	351
	THIS IS A REVIEW OF THE TITLE BOOK AS IT WAS W	24064	501
	RITTEN BY G. M. GOLOVSKII IN THE JOURNAL AUTOM	24064	502
	ATIC WELDING, MARCH 1961, P. 90-91.	24064	503
	AUTOMATIC WELDING	24064	701
_	WELDING, AUTOMATIC	24064	702
9	MANUAL WELDING	24064	703
~	WELDING, MANUAL	24064	704
_	WELDING TECHNIQUES	24064	705
•	24065	24065	011
	ZHENCHUZHNIKOV,G.V.	24065	101
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<b>(3)</b>	• •		
			. 2

.

Same and the Continue was not

ROMANOVSKII, R.G.	24065	102
AUTOMATIC WELDING, APR 1961, P. 49-56	24065	251
EXPERIMENTS WERE PREPORMED TO DETERMINE STATIC	24065	501
STRENGTH OF SPOT WELDED JOINTS IN SHEETS 1/4	24065	502
INCH THICK. TWO TEMPERATURES, -55 C AND O C W	24065	503
RRE CONSIDERED. THE NATERIAL WAS A LOW-CARBON	24065	504
STEEL. SINGLE, TWO, AND THREE SPOT JOINTS WO	24065	505
RKING IN SHEAR AND TORSION WERE STUDIED.	24065	506
WELDING, AUTOMATIC	24065	701
AUTONATIC WELDING	24065	702
PRACTURE TESTING	24065	703
TESTING, PRACTURE	24065	704
24066	24066	011
BAKARA, A. H.	24066	101
TSECHAL, V.A.	24066	102
ZHOVNITSKII, I. D.  DETERMINATION OF THE MANNER IN WHICH COLD CR	24066	103
ACKS DEVELOP IN WZLDED JOINTS BY ULTRASONIC DE	24066	201
PRCTOSCOPY.=	24066	202 203
AUTONATIC WELDING, MAY 1961, P. 1-7	24066 24066	20.1 251
THIS IS A DETAILED DESCRIPTION OF AN EQUIPMENT	24066	501
WHICH MAY BE USED IN EXPERIMENTS TO DETERMINE	24066	501
TIME AND THE WAY OF FORMATION OF COLD CRACKS	24066	503
IN WELDED JOINTS.	24066	504
WELDABILITY TESTING	24066	701
TESTING WELDABILITY	24066	702
24067	24067	011
GOTAL'SKII, JU. N.	24067	101
PEATURES OF THE WELDING OF DISSIBILAR STEELS	24067	201
. (REVIEW OF PUBLISHED WORK) .=	24067	202
AUTONATIC WELDING, AUG 1961, P. 45-53	24067	251
THIS IS AN EXTENSIVE REVIEW OF THE TITLE TOPIC	24067	501
, CONCERNING 44 REPERENCES.	24067	502
WELDING TECHNIQUES	24067	701
WELDING MANUAL	24067	702
WELDING AUTONATIC	24067	703
24068	24068	011
PROKHOROV, N. N.	24068	101
MAKAROV, E. L.	24068 24068	102 201
METHODS OF DETERMINING AND REGULATING THE CA PACITY OF STEELS FOR RESISTING COLD CRACKING D	24068	202
URING WELDING.=	24068	202
AUTOMATIC WELDING, NOV 1961, P. 1-9	24068	251
A HYPOTHESIS IS PROPOSED REGARDING THE STRENGT	24068	501
H OF STEEL IN THE PROCESS OF COLD CRACKING AFT	24068	502
ER WELDING. A QUANTITATIVE NETHOD IS PROPOSED	2406A	503
WHICH CAN BE USED TO ASSESS THE TENDENCY OF A	24068	504
GIVEN STREE TO COLD CRACKING. VERIFYING EXPR	24068	505
RIHENTS ARE PRESENTED.	24068	506
WELDABILITY TESTING	24068	701
TESTING WELDABILITY	24068	702
24069	24069	011
TRUPYAKOV, V. I.	24069	101
A CRITERION FOR FATIGUE FRACTURE IN WELDED J	24069	201
OINTS.=	24069	202
AUTONATIC WELDING, JAN 1960, P. 7-19	24069	251
THIS IS A DETAILED ARTICLE ON INITIATION OF FA	24069	501
TIGUE CRACKS IN WELDED JOINTS AND ON THEIR REL	24069	502
ATION TO BRITTLE FRACTURE. TRANSITION CONDITI	24069	503

٠

p.,,,

ONS ARE DISCUSSED. IT IS THEN PROPOSED THAT P	24069	5
ATIGUE CRACKS WHICH MAY LEAD TO BRITTLE PRACTU RES ALREADY, FROM THE FATIGUE VIEWPOINT. HANY	24069 24069	5
RES ALREADY, FROM THE FATIGUE VIEWPOINT. HANY TYPES OF WELDS ARE STUDIED.	24069	
FATIGUE TESTING	24069	<u>5</u>
TESTING, FATIGUE	24069	ż
PRACTURE TESTING	24069	7
TESTING, FRACTURE -	24069	7
24070	24070	0
KASATKIN, V.S.	24070	1
DAROVSKII, G. F.	24070	1
THE SUBSTRUCTURE OF LOW-CARBON WELDS.= AUTOMATIC WELDING, JAN 1960, P. 14-21	24070 24070	$-\frac{2}{2}$
RESULTS ARE GIVEN OF AN INVESTIGATION OF LOW-C	24070	5
ARBON WELD SUBSTRUCTURES BY ELECTRON MICROSCOP	24070	<u>5</u>
E. THE NATURE OF FERRITE GRAIN MICRO AND MACR	24070	5
O-SUBSTRUCTURES AND THEIR EFFECTS ON THE MECHA	24070	5
NICAL PROPERTIES OF WELD METALS ARE EXAMINED.	24070	5
STEFLS, CARBON	24070	7
STEELS, LOW STRENGTH	24070	7
WELDABILITY TESTING	24070	7
TESTING, WELDABILITY 24071	24070 24071	7
TALYPOV, G.B.	24071	1
AN APPROXIMATED THEORY OF WELDING DEFORMATIO	24071	
N AND STRESSES.=	24071	2
LENINGRAD UNIVERSITY PRESS, 1957	24071	3
THIS IS AN EXTENSIVE AND VERY CRITICAL REVIEW	24071	5
OF THE TITLE BOOK, AS IT WAS WRITTEN BY I. P.	24071	5
BAIKOVA IN THE JOURNAL AUTOMATIC VELDING.	24071	
RESIDUAL STRESSES	24071 24071	7
WELDING AUTOMATIC WELDING MANUAL	24071	7
24072	24072	Ć
PATON, B. E.	20072	1
GRODELSKIJ, JU.S.	24072	1
PROGRAMMING WELDING PROCESSES. =	24072	2
AUTOMATIC WELDING, JAN 1960, P. 40-48	24072	2
THIS IS A DESCRIPTION OF VARIOUS PROGRAMMING D	24072	
EVICES WHICH HAVE BEEN DEVELOPED FOR CONTROL O	24072 24072	5
F SHORT, MEDIUM, AND LONG DURATION PROCESSES. THE QUALITY OF WELDS IS IMPROVED BY MAINTAINI	24072	5
NG OPTINUM CONDITIONS DURING THE PROCESS.	24072	
WELDING TECHNIQUES	24072	7
WELDING AUTOMATIC	24072	
WELDING EQUIPMENT	24072	7
24073	24073	
VINOKUROV, V. A.	24073	1
GAZARYAN, A.S.	24073	1
DEFORMATIONS IN ELECTROSLAG WELDING.=	24073 24073	2
AUTOMATIC WELDING, SEP 1960, P. 1-9 EXPERIMENTAL RESULTS AND A SUMMARY OF THEORETI	24073 24073	5
CAL KNOWLEDGE IS PRESENTED ON THE HAGNITUDE OF	24073	
TRANSVERSE DEPORMATIONS OCCURING IN BUTT WELD	24073	Š
ING OF PLATES BY AN ELECTROSLAG PROCESS. ALSO	24073	
THE WAY OF DEVELOPMENT OF THESE DEFORMATIONS	24073	•
IS DESCRIBED.	24073	
WELDING, AUTOMATIC	24073	7
AUTOMATIC WELDING	24073	7

Commence of the second second

March 12 march

مرتتك مدينة ماران يسمه

RESIDUAL STRESSES	24073	703
WELDING TECHNIQUES	24073	704
24074	24074	011
OSTROVSKAYA, S. A.	24074	101
SOME DATA FOR THE MECHANICAL PROPERTIES OF T	24074	201
HE WELD METAL PRODUCED WHEN CARBON AND LOW-ALL	24074	202
OY CONSTRUCTIONAL STEELS ARE ELECTRUSIAG WELDE	24074	203
D.=	24074	203
AUTONATIC WELDING, PEB 1962, P. 1-9	24074	251
THIS IS A DESCRIPTION OF EXTENSIVE EXPERIMENTS	24074	501
WHICH RELATE CHEMICAL COMPOSITION OF A WELD,	24074	502
THE COOLING RATE AND HEAT TREATMENT APPLIED TO	24074	503
ITS MECHANICAL PROPERTIES.	24674	504
MECHANICAL PROPERTIES WELDING TECHNIQUES	24074	701 702
WELDABILITY TESTING	24074 24074	702
TESTING, WELDABILITY	24074	704
24075	24074 24075	011
KAZIHIROV, A. A.	24075	101
WEDOSEKA, A.JA.	24075	102
RESIDUAL WELDING STRESSES INVESTIGATED BY HE	24075	201
ANS OF PHOTOELASTIC TRANSDUCERS.=	24075	202
AUTONATIC WELDING, JAN 1962, P. 29-35	24075	251
A NETHOD OF INVESTIGATION OF A PLANE STRESS ST	24075	501
ATE, USING TRANSDUCERS HADE OF OPTICALLY ACTIV	24075	502
E HATERIAL IS DESCRIBED IN DETAIL. DEVELOPMEN	24075	503
T AND TREATMENT OF THE TRANSDUCERS IS DISCUSSE	24075	504
D AND THEIR USE IN WELDING STUDIES ILLUSTRATED	24075	505
	24075	506
RESIDUAL STRESSES	24075	701
PHOTOELASTIKITY	24075	702
EXPERIMENTAL METHODS	24075	703
NETHODS, EXPERIMENTAL	24075	704
24076	24076	011
ANONYMOUS	24076	101
SOVIET LOW-ALLOY STEEL DESIGNATION.=	24076	201
ANTONATIC WELDING, JAN 1962.	24076	251
THIS IS AN ABBREVIATED LIST OF SYMBOLS WHICH A	24076	501
RE USED IN DESIGNATION OF SOVIET LOW-ALLOY STE	24076	502
BLS.	24076	503 701
STEELS, IOW-ALLOY	24076 24076	
LOW-ALLOY STEELS	24076	702 011
24077	24077	101
OSTROVSKAYA, S. A. ASSESSING THE RESISTANCE OF STEEL TO HOT CRA	24077	201
CKING IN THE WELD METAL.=	2407? 2407?	201
AUTONATIC WELDING, JAN 1964, P. 6-11	24077	251
EQUATIONS ARE GIVEN FOR DETERMINATION OF THE E	24077	501
PRECTS OF CERTAIN ELEMENTS CONTAINED IN CARBON	24077	502
AND LOW-ALLOY STRUCTURAL STEELS ON THE RESIST	24077	503
ANCE TO HOT CRACKING OF WELD HETALS DEPOSITED	24077	504
ON THESE STEELS BY PUSION WELDING. THE MOST W	24077	505
IDELY USED STEELS ARE CLASSIFIED ON THE BASIS	24077	506
OF CARBON CONTENT BOUIVALENT, WHICH CAN BE CAL	24077	507
CULATED. GENERAL RULES ARE GIVEN FOR WELDING	24077	508
TECHNIQUES FOR SUCH STEELS.	24077	509
HATERIALS BRITTLENESS	24077	701
BRITTLENESS, MATERIALS .	24077	702
DYTIINDUDD' USIDNIKTD .		

·, ·

TESTING, PRACTURF	24077.	70
24078	24078	0.
SUSHCHUK - SLYUSARENKO, I. I.	24078	1(
COMPENSATION OF DEFORMATION DURING ELECTROSL	24078	2(
AG WELDING.=	24078	20
AUTOMATIC WELDING, JAN 1964, P. 24-28	24078	2
SEVERAL SAMPLE CASES OF ELECTROSLAG WELDING AR	24078	50
E ANALYSED WITH RESPECT TO DEFORMATIONS DURING	24078	50
THE PROCESS. MEASURES ARE DESCRIBED WHICH CA N LEAD TO PLIMINATION OF UNCONTROLLED DEFORMAT	24078	5(
TON AND GIVE CORRECT SHAPES.	24078 24078	<u>5(</u>
WELDING TECHNIQUES	24078 24078	7(
24079	24079	0,
OSTROVSKAYA, S. A.	24079	10
EFFECTS OF CERTAIN ELEMENTS INCLUDED IN WELD	24079	20
METALS ON THEIR MECHANICAL PROPERTIES.=	24079	20
AUTOMATIC WELDING, FEB 1964, P. 17-20	24079	25
THE EFFECTS OF CARBON, MANGANESE, SILICON, CHR	24.079	5(
OMIUM, NICKEL, COPPER, PHOSPHORUS AND SULFUR O	24079	50
N MECHANICAL PROPERTIES OF WELD METAL HAVE BRE	24079	50
N EXAMINED WITH RELATION TO THE ARC AND ELECTR	24079	50
OSLAG WELDING OF CARBON AND LOW-ALLOY STRUCTUR	24079	50
AL STEELS. RELATIONSHIPS ARE GIVEN FOR ASSESS	24079	5(
ING THE MECHANICAL PROPERTIES FROM CARBON CONT	24079	50
ENT EQUIVALENT, EVALUATED PROM TOTAL CHEMICAL	24079	50
COMPOSITION.	24079	50
MECHANICAL PROPERTIES WELDABILITY TESTING	24079 24079	70
TESTING, WELDABILITY	24079	70
24080	24080	01
OSTROVSKAYA, S. A.	24080	10
STEEL CLASSIFIED BY ITS RESISTANCE TO BRITTL	24080	20
E FRACTURE.=	24080	20
AUTOMATIC WELDING, JUN 1964, P. 45-51	24080	25
CONSIDERATIONS INVOLVED IN SELECTION OF CRITER	24080	50
IA AND TESTS FOR PRACTURE SAFETY AND THEIR EXP	24080	50
RESSION IN ACCEPTANCE AND DELIVERY TESTS ARE G	24080	50
IVEN. THEN, A LIST OF COMMON STEELS IS GIVEN W	24080	50
ITH RESPECTIVE SPECIFIED VALUES.	24080	50
FRACTURE TESTING	24080 24080	7(
TESTING, FRACTURE	24080 24080	7( 7(
MATERIALS BRITTLENESS BRITTLENESS, MATERIALS	24080	70
HECHANICAL PROPERTIES	24080	70
24081	24081	o i
TRUPYAKOV, V. I.	24081	10
PROBLEMS IN THE PROCEDURE FOR PATIGUE TESTS	24081	20
ON WELDED JOINTS.=	24081	20
AUTOMATIC WELDING, JAN 1963, P. 1-8	24081	2
A BASIS IS GIVEN FOR SELECTION OF A CRITERION	24081	50
FOR FATIGUE FAILURE OF TEST PIECES, THE TEST B	. 24081	5(
ASIS AND THE DIMENSIONS OF TEST PIECES. THE W	24081	5(
AY OF PLOTTING OF RESULTS IS ALSO GIVEN.	24081	5(
PATIGUE TESTING	24081	7
TESTING, FATIGUE	24081	7(
24082	24082	0
KELEKHSAEV, V.JA.	24082	1
LASHKO, H. F.	24082	1(
THE CREATION OF HIGH DUCTILITY BRITTLE CRACK	24082	20

. .

....

: .

4

LGCALIZERS.=	24082	20
AUTONATIC WELDING, MAR 1963, P. 10-17	24082	25
EXPERIMENTS ARE DESCRIBED ON THE EFFECT OF DUC	24082	50
TILE METALLIC UNDERLAYERS IN STEEL ON ARREST O	24082	50
F BRITTLE FRACTURE IN SIMPLE SPECIMENS. IT IS	24082	50
SHOWN THAT EVEN RATHER THIN LOCALIZERS IMPROV	24082	50
E THE DUCTILITY OF SAMPLES CONSIDERABLY.	24082	50
PRACTURE TESTING	24082	70
TESTING, PRACTURE	24082	70
NATERIALS BRITTLENESS	24082	70
BRITTLENESS, MATERIALS	24082	70
24083	24083	01
BYCHKOV, O.D.	24083	10
TELEVISION USED IN THE X-RAY INSPECTION OF W ELDED JOINTS (REVIEW OF PUBLISHED LITERATURE).	24083	20
BRADA ACTATO (UDATOM OL BADRIQUEN PILKKULAKE).	24083 24083	20 20
AUTOMATIC WELDING, MAR 1963, P. 37-44	24083	20 25
THIS IS AN EXTENSIVE REVIEW OF BOTH RUSSIAN AN	24083	∠∋ 50
D FOREIGN LITERATURE ON USE OF TELEVISION IN C	24083	<u> </u>
ONNECTION WITH X-RAY INSPECTION OF WELDS.	24083 24083	יות 50
WELDABILITY TESTING	24083	<del>- 30</del>
TESTING, WELDABILITY	24083	70
24084	24084	01
BAKSHI,O.A.	24084	10
KLYKOV, N.A.	24084	10
INVESTIGATION OF THE THERMAL FIELDS AND RESI	24084	20
DUAL STRESSES CREATED WHEN GOLES IN FLAT STEEL	24084	20
PLATES ARE WELDED UP BY ARC PROCESSES.=	24084	20
ACTONATIC WELDING, JUL 1962, P. 27-30	24084	25 25
THIS IS A DESCRIPTION OF EXPERIMENTS WHICH SHO	24084	50
W THAT A MODEL OF A STATIONARY LINEAR SOURCE O	24084	50
P HEAT IS APPLICABLE TO CALCULATION OF THERMAL	24084	50
FIELDS WHERE HOLES IN STEEL PLATES ARE WELDED	24084	50
UP BY ARC PROCESS.	24084	50
RESIDUAL STRESSES	24084	70
WELDING MANUAL	24084	70
24085	24085	01
KLYKOV, H.A.	24085	10
EFFECTS OF RESIDUAL STRESS ON THE FATIGUE ST	24085	20
RENGTH OF WELDED STRUCTURES.=	24085	20
AUTOMATIC WELDING, OCT 1962, P. 18-26	24085	25
THIS IS A STUDY ON PAVORABLE EFFECTS OF CERTAI	24085	50
N RESIDUAL STRESS FIELDS ON ENDURANCE LINITS O	24085	50
P WPLDED STRUCTURES.	24085	50
PATIGUE TESTING	24085	70
TESTING, FATIGUE	24085	70
RESIDUAL STRESSES	24085	70
24086	24086	01
SHISHKIN, V.JU.	24086	10
RELATIONSHIP OF THE EDGE PREPARATION DIMENSI	24086	20
ONS TO THE SHAPES AND CROSS-SECTIONSAL DINENSI	24086	20
ONS OF WELDS.=	24086	20
AUTONATIC WELDING, DEC 1962, P. 35-39	24086	25
A PROCEDURE IS PROPOSED FOR CALCULATING THE ID	24086	50
EAL EDGE PREPARATION DIMENSIONS FOR WELDED JOI	24086	50
NTS. THE SHAPE AND CROSS-SECTIONAL DIMENSIONS	24086	50
OF WELDS CAN BE COMPUTED FOR DIFFERENT RDGE P	24086	50
REPARATIONS. INTERRELATIONSHIPS BETWEEN ALL T	24086	50
HESE QUANTITIES IS TAKEN INTO ACCOUNT. DETAIL	24086	50

To Settlem

• •

•	PR PVINNIE DAD CITCHIIMTAN AB M. TATUMA BIBLUME	04004	
<del>ت</del> 	ED EXAMPLE FOR CALCULATION OF T-JOINTS PARAMET ERS IS GIVEN.	24086 24086	507 508
_	WELDING TECHNIQUES	24086	701
	24087	24087	011
	MANDELBERG, S.L.	24087	101
_	MAGNETIC CONTROL OF THE ARC IN SUBMERGED ARC	24087	201
	WELDING IN STEEL. = AUTOMATIC WELDING, SEP 1962, P. 2-10 -	24087	202
-	THIS IS A DETAILED ARTICLE ON A NEW METHOD OF	24087 24087	<u>251</u>
	MAGNETIC CONTROL FOR THE SUBMERGED ARC. TECHN	24087	501 502
	OLOGICAL FRATURES OF THE METHOD ARE INVESTIGAT	24087	503
	ED AND WELDING CONDITIONS ARE WORKED OUT WITH	24087	504
•	WHICH THE WELDING RATE IS DOUBLED WHEN MAKING	24087	505
	SINGLE-ARC BUTT WELDS. IN ENGLISH.	24087	506
_	WELDING AUTOMATIC	24087	701
	WELDING TECHNIQUES	24087	702
	WELDING EQUIPMENT	24087	703
	METALS, WPLDING	24087	704
_	WELDING, METALS 24088	24087	705
_	EROKHIN, A. A.	24088 24088	011 101
•	EFFECT OF WELDING CONDITION VARIABLES ON INT	24088	. 201
	ERACTION BETWEEN DEPOSITED METAL AND GASES AND	24088	202
_	SLAG IN ARC WELDING.=	24088	203
•	AUTOMATIC WELDING, MAY, 1960, P. 1-7	24088	251
	THE EFFECTS OF THE WELDING CONDITIONS ON THE I	24088	501
_	NTENSITY OF THE OXIDISING-REDUCING REACTIONS D	24088	502
<b>-</b>	URING ARC WELDING WITH COVERED ELECTRODES ARE	24088	503
	EXAMINED. CONNECTIONS ARE ESTABLISHED BETWEEN	24088	504
•	THE WELDING CONDITIONS AND BLECTRODE METAL DR	24088	<u>505</u>
_	OPLET SIZE, SPECIFIC SURFACE AREAS AND PERIODS OF EXISTENCE. IN ENGLISH.	24088 24088	506 507
	WELDING MANUAL	24088	701
	WELDING TECHNIQUES	24088	702
_	WELDING, METALS	24088	703
_	METALS, WELDING	24088	704
	24089	24089	011
	NIKOLAEV, G. A.	24089	101
_	VINCKUROV, V. A.	24089	102
	GAZARYAN, A.S.	24089	103
	KURKIN, S. A.	24089	104
<b></b>	DEVELOPMENT OF INTERNAL STRESSES WHEN WELDIN G THICK METAL. =	24089 24089	201 202
-	AUTOMATIC WELDING JUN. 1960 P. 1-6	24089 * 24089	251
	METHODS FOR DETERMINING THE MAGNITUDE OF THE P	24089	501
	IRST ORDER TRIAXIAL RESIDUAL STRESSES DEVELOPR	24089	502
	D IN THICK MEMBERS WHEN ELECTRO-SLAG OR SUBMER	24089	503
	GED ARC WELDED ARE EXAMINED. THE ARTICLE ALSO	24089	504
	DISCUSSES THE MAGNITUDE OF RESIDUAL DEPORMATI	24089	505
_	ONS WITH RELATION TO PARTICULAR WELDING PROCES	24089	506
_	SES. IN ENGLISH.	24089	507
<b>–</b>	WELDING AUTOMATIC	24089	701
	WELDING TECHNIQUES	24089 24089	702 703
_	EXPERIMENTAL, METHODS METHODS, EXPERIMENTAL	24089	703 704
	MEASUREMENT, METHODS	24089	705
	METHODS, MEASUREMENT	24089	706
•	METALS, WELDING	24089	707

\*\*\*

Company of the control of the contro

<b>20</b> 090	24090	011
24090 PATON, B. E.	24090	101
PROGRAMME AND CYBERNETA SYSTEMS OF REGULATI	24090	201
MG WELDING PROCESSES.=	24090	202
AUTOMATIC WELDING, JUL. 1960, Pp. 1-7	24090	251
THIS IS A GENERAL ARTICLE IN WHICH CERTAIN PRO	24090	501
BLEMS CONCERNED WITH THE AUTOMATIC REGULATION	24090	502
OF WELDING PROCESSES ARE EXAMINED. POSSIBLE F	24090	503
IELDS OF APPLICATION IN THE WELDING INDUSTRY P	24090	504
OR MODERN SYSTEMS OF PROGRAMME CONTROL AND CYB	24090	505
ERNETICS ARE INDICATED. IN ENGLISH.	24090	506
WELDING AUTOMATIC	24090	701
WELDING EQUIPMENT	24090	702
WELDING TECHNIQUES	24090	703
METALS, WELDING	24090	701
WELDING, METALS	24090	705
24091	24091	011
RARVSKII, G. V.	24091	101
THE USE OF COILED SHRET STEEL. A PROGRESSIVE	24091	201
TREND IN DESIGN OF WELDED STRUCTURES.=	24091	202
AUTONATIC WELDING, JULY 1960, PP. 18-23	24091	25
THIS IS A GENERAL DISCUSSION ON USE OF SHEET S	24091	501
TEEL IN THE DESIGN OF WELDED STRUCTURES. THE	24091	502
AMOUNT OF WELDING IS REDUCED BY WIDE EMPLOYMEN	24091	503
T OF BENDING CLOSED BOX TYPE OR TUBULAR SECT	24091	504
IONS ARE USED TO OBTAIN MAXIMUM STIFFNESS, AND	24091	509
HOLLOW COMPONENTS ARE SEALED HERMETICALLY TO	24091	506
PREVENT INTERNAL CORROSION. IN ENGLISH.	24091	507
STRUCTURES	24091	701
SHAPS, CONSTRUCTION	24091	702
CONSTRUCTION, SHOPS	24091~	703
24092	24092	011
KAKHOVSKII, N. I.	24092	101
ELECTRODES FOR WELDING SHIP HULL SKINS HADE	24092	201
OF SKHL STEELS. =	24092	202
AUTOMATIC WELDING, AUG. 1960 P. 26-32	24092	251
THIS IS A DETAILED DESCRIPTION OF COMPOSITION	24092	501
AND PROPERTIES OF THE AN-KH 7 ELECTRODES WHICH	24092	502
PROVIDE WELDED JOINTS WITH SATISFACTORY MECHA	24092	503
NICAL PROPERTIES. THE CORROSION RESISTANCE OF	24092	504
WELDS IS EQUAL TO THAT OF THE PARENT METAL.	24092	505
THIS IS ACHIEVED MAINLY BY AN ADDITION OF 7-8%	24092	506
OF PERROCHROMIUM TO ELECTRODE COATING. THE S	24092	507
KHL TYPE OF STEELS IS REPRESENTED BY 10 KH SND	24092	508
STEEL (0.08 C, 0.61 MN, 0.80 SI, 0.89 CR., 0.	24092	509
80 NI, 0.41 CU). IN ENGLISH.	24092	510
WELDING EQUIPMENT	24092	701
WELDING MANUAL	24092	702
WELDING TECHNIQUES	24092	703
24093	24093	011
MAYROTSKII,I.V.	24093	10
TOMENKO, JU. S.	24093	102
THE EFFECT OF THE STRESS GRADIEST ON TENSILE	24093	201
STRENGTH DURING BRITTLE RUPTURE.	24093	202
INDUSTRIAL LABORATORY, 27, DEC. 1961, P. 1523-	24093	251
	24093	252
1525		501
THIS IS A SHORT PAPER ON THE EFFECT OF PLATE S	24073	
THIS IS A SHORT PAPER ON THE EFFECT OF PLATE S PECIHEN WIDTH AND ON THE DISTRIBUTION OF STRES	24093 24093	502

1

:

• .

HE RESULTS SEEM TO INDICATE A GENERAL AGREPMEN	24093	504
T WITH USUAL PREDICTIONS OF LINEAR FRACTURE HE	24093	505
CHANICS. IN ENGLISH.	24093	506
PRACTURE, TESTING	24093	701
TESTING, FRACTURE	24093	702
24094	24094	011
KRASILSHCHIKOV, A. N.	24094	101
SHYACH, E.N. A METHOD FOR DETERMINING THE IMPACT STRENGTH	24094	102
OF STEFL BY FRACTURE ANALYSIS.=	24094	201
INDUSTRIAL LABORATORY, 27, DEC. 1961, P. 1510-	24094 24094	202 251
1514.	24094	25 I 252
THIS IS A SHORT DESCRIPTION OF AN EMPIRICAL ME	24094	501
THOD WHICH IS PROPOSED FOR DETERMINATION OF TH	24094	502
E IMPACT STRENGTH OF CARBON AND ALLOY STEELS.	24094	503
IF ENOUGH DATA ARE ACCUMULATED, IT IS POSSIBL	24094	504
E TO PLOT, FOR EVERY GRADE OF STEEL, NOMOGRAMS	24094	505
FOR THE CALCULATION OF IMPACT STRENGTH FROM H	24094	506
ARDNESS AND STRUCTURE OF FRACTURE. IN ENGLISH	24094	507
· · · · · · · · · · · · · · · · · · ·	24094	508
PRACTURE TESTING	24094	701
TESTING, FRACTURE	24094	702
MATERIALS, TESTING	24094	703
TESTING, MATERIALS	24094	704
EXPERIMENTAL METHODS	24094	705
METHODS, EXPERIMENTAL	24094	706
24095	24095	011
REIPRICH, T.	24095	101
INSULATION PRACTICES IN JOINING OF ALUMINUM	24095	201
WITH OTHER MATERIALS.=	24095	202
SCHIFF UND HAPEN, MAY 1957, P. 396-401.	24095	251
THIS IS THE SECOND PART OF A LONGER ARTICLE ON	24095	501
THE TITLE TOPIC. FOR FIRST PART SEE 24 101.	24095	502
THIS PART DEALS WITH RECOMMENDED PRACTICES FO	24095	503
R CORROSION PREVENTION IN STRUCTURAL JOINTS OF	24095 24095	504 505
ALUMINUM WITH WOOD, STEEL AND OTHER HEAVY MET ALS. A NUMBER OF PRACTICAL DETAILS IS GIVEN.	24095 24095	506
METALS, JOINING	24095 24095	701
JOINING, METALS	24095	702
COPROSION PROTECTION	24095	702
PROTECTION, CORROSION	24095	704
24096	24096	011
RADEKER, W.	24096	101
RESULTS OF A JOINT INVESTIGATION ON REMOVAL	24096	201
OF ROLLING SKIN FROM SHIP STEELS.=	24096	202
SCHIFF UND HAPEN, 10, JAN. 1958, P. 23-25.	24096	251
THIS IS A SHORT BUT COMPREHENSIVE REPORT ON TH	24096	501
E TITLE TOPIC. THE MAIN OBJECTION WAS TO ESTA	24096	502
BLISH SUITABLE FINISHING PROCEDURES BOTH DURIN	24096	503
G AND AFTER ROLLING, WHICH WOULD FACILITATE RE	24096	504
MOVAL OF THE ROLLING SKIN BEFORE PAINTING. VA	24096	505
RIOUS PROCEDURFS ARE EVALUATED BOTH FOR RINHIN	24096	506
G AND ROLLED STEELS. TRANSLATION OPTIONAL.	24096	507
STEELS, SHIP BUILDING	24096	701
SHIPBUILDING STEELS	24096	702
CORROSION PROTECTION	24096	703
PROTECTION, COBROSION	24096	. 704
· · · · · · · · · · · · · · · · · · ·	つれ ハロマ	. 011
24097 STEPANOV, I. A.	24097 24097	101

**4:1**.

STROKAN, B. V.	24097	10
CORROSION OF METALS IN SEA WATER DURING HEAT	24097	20
TRANSFER.=	24097	20
3RU INT. CONGRESS ON METALLIC CORROSION MOSCOW	24097	25
, 12-25 MAY, 1966, PP. 205-208. EXTENDED ABSTR	24097	25
ACTS OF PAPER TO BE PRESENTED	24097	25
THIS IS A SHORT SUMMARY ON CORROSION RESISTANC	24097	50
E OF PIPES OF HEAT EXCHANGERS IN SEA WATER. I	24097	<u> 50</u>
T IS SHOWN, THAT HEAT TRANSFER MAY REDUCE CONS	24097	50
IDERABLY CORROSION RESISTANCE OF CU, CU-NI, AND NI  ALLOYS AS WELL AS OF AUSTENITIC STAINLESS S	24097	<u>50</u>
TEELS. IN ENGLISH.	24097	50
CORROSION RESISTANCE	24097	50
RESISTANCE, COBROSION	24097 24097	70 70
CORROSION	24097	
POWER PLANTS, COOLING SYSTEMS	24097	70 70
COOLING SYSTEMS, POWER PLANTS	24097	70
24098	24098	01
GULYARV, V.N.	24098	10
AKOL'ZIN, P. A.	24098	10
IVANOV, E. N.	24098	10
ON USING THE RAPID METHOD OF DETERMINING THE	24098	20
TENDENCY OF METALS TO CORROSION CRACKING. =	24098	20
INDUSTRIAL LABORATORY, 26, MAR. 1960, PP. 340-	24098	25
341	24098	25
THIS IS A DESCRIPTION OF EXPERIMENTS WHICH HAV	24098	50
E PAILED TO SUPPORT AN EXPERIMENTAL METHOD MEN	24098	50
TIONED IN THE TITLE. THIS METHOD HAS BEEN BAS	24098	50
ED ON THE DEGREE OF REDUCTION OF DUCTILITY IN	24098	50
A TRUSION TEST PERFORMED IN THE CORROSIVE MEDI	24098	50
UN. IT : CONCLUDED THAT THE RAPID TEST IS NO	24098	50
T SUITABLE FOR WEAKLY CORROSIVE MEDIA. IN ENG	24098	50
LISH.	24098	50
CORROSION	24098	70
CORROSION RESISTANCE	24098	70
RESISTANCE, CORROSION	24098	70
TESTING METHODS METHODS, TESTING	24098 24098	70 70
24099	24098	01
DAVIDENKOV, N. N.	24099	10
EFFECT OF THE DIMENSION FACTOR ON THE MECHAN	24099	20
ICAL PROPERTIES OF SPECIMENS.=	24099	20
INDUSTRIAL LABORATORY, 26, MAR. 1960, PP. 319-32	24099	25
0	24099	25
THIS IS A VERY BRIEF ARTICLE WHICH SHOWS THAT	24099	50
BENDING STRENGTH OF ICE BRANS MAY BE EASILY PR	24099	50
EDICTED FROM THE MAXIMUM DEFLECTION AND LENGTH	24099	50
OF THE SPECIMEN. IT MAY BE POSSIBLE TO GENER	24099	50
ALIZE THIS CRITERION FOR APPLICATION ON PLATES	24099	50
. IN ENGLISH.	24099	50
ICE CHARACTERISTICS	24099	70
SIZE EFFECTS	24099	70
24100	24100	00
TOMASHOV, N. D.	24100	10
THEORY OF METAL CORROSION AND PROTECTION.=	24100	20
AN SSSR PRESS, MOSCOW, 1959	24100	35
A REVIEW OF THIS BOOK IS GIVEN. IT WAS WRITTE	24100	50
M BY P. A. AKOL'ZIN AND A. V. SCHREIDER AND PU	24100	50
BLISHED IN THE JOURNAL INDUSTRIAL LABORATORY.	24100	50.

27, APR. 1961, PP. 519-20. IN ENGLISH		24100	50
CORROSION		24100	70
CORROSION FROTECTION		24100	70
PROTECTION, CORROSION		24100	70
24101		24101	01
REIPRICH, J.  INSULATION PRACTICES IN JOINING OF A	P TI M P M II M	24101 24101	10 20
WITH OTHER MATERIALS. =		24101	20
SCHIFF UND HAPEN, JAN. 1957, Pp. 13-16		24101	25
THIS IS THE FIRST PART OF A LONGER STU		24101	50 <sup>-</sup>
SECOND PART SEE REF. 24095. THIS SECT		24101	50
S WITH ELEMENTS OF ELECTROLYTIC CORROS		24101	50
WITH INSULATION PROCEDURES, MAINLY BET		24101	50
EL AND ALUMINUM. SOME STRUCTURAL DETA		24101	509
ELL AS A DESCRIPTION OF INSULATING MAT	erials i	24101	50
S GIVEN.		24101	501
METALS, JOINING		24101	70
JOINING, METALS		24101	70:
CORROSION PROTECTION		24101	70
PROTECTION, CORROSTON	· · · · · · · · · · · · · · · · · · ·	24101	70
24102	•	24102	01
HAUTTMANN, H. TESTING OF LD SHIPSTEELS FOR FRACTUR	P DPCTCM	24102 24102	10 20
ANCE AT LOW TEMPERATURES.=	relegn a	24102	20
SCHIFF UND HAPEN, JUNE, 1957, PP. 507-	509-	24102	<u>25</u>
THIS IS A SHORT DESCRIPTION OF SOME TE		24102	50
CAL TESTS FOR ESTIMATING PRACTURE RESI		24102	50
NAMELY, A WIDE-PLATE PLASTIC BENDING		24102	50
EXPLOSIVE TUBE TEST AND CHARPY-V TEST		24102	50
RIBED, AS THEY WERE PERFORMED ON LD ST	EELS (MA	24102	50
DE BY A PURE-OXYGEN PROCESS). THESE S	TEELS AR	24102	50
E SHOWN TO BE SUPERIOR TO STEELS PRODU	CED BY O	24102	50
PEN HEARTH PROCESS.		24102	50
STEELS, CARRON		24102	70
CARBON STEFLS		24102	70: 70:
STEELS, SHIPBUILDING SHIPBUILDING STEELS		24102 24102	70
PRACTURE TESTING		24102	70:
TESTING, FRACTURE		24102	70
24103		24103	01
POULON, A.		24103	10
STEEL AND CORROSION.=		24103	20
SCHIPP UND HAPEN, APR. 1960, PP. 360-36		24103	25
THIS IS A SHORT AND GENERAL ARTICLE WH		24103	50
RIBES SIX BASIC WAYS OF CORROSION DAMA	GE TO ST	24 103	50
EELS.		24103	50
CORROSION		24103	70
24104		24104	01 10
VAGAPOV, R.D.		24104	10
FRIDMAN, JU. B. THE INFLUENCE OF THE TYPE OF LOADING	ON PART	24104	20
GUE STRENGTH.=	WH ERLL	24104	20
INDUSTRIAL LABORATORY, 27, PEB., 1961,	PP. 184	24104	25
-189	— <del>- ▼</del>	24104	25
FATIGUE TESTS WERE PERFORMED IN CYCLIN	G BENDIN	24104	50
	R ONE SE	24104	50
T OF TESTS, CONSTANT LOAD WAS MAINTAIN	ED, WHIL	24104	50
B THE SECOND SET WAS TESTED UNDER CONS	TANT DEF	24104	50
LECTION. INITIAL CONDITIONS WERE IDEN	PTCAL PO	24104	50

B HARD SERVE THE SERVETHING THE THEFT		
R BOTH SFTS. IN ADDITION TO THAT TWO FATIGUE	24104	506
LIFE CURVES WERE ESTABLISHED: ONE FOR APPEARA MCE OF FIRST MICROCRACK AND ANOTHER ONE FOR CO	24104	507
MPLETE PAILURE. AS EXPECTED, CONSTANT LOAD PR	24104	508
OVED TO HAVE MORE EFFECTS. ALSO, IT WAS SHOWN	24104	500
THAT MICROCRACKS DEVELOP WITHIN THE FIRST TEN	24104	510
TH OF THE TOTAL PATIGUE LIFE. IT IS EMPHASIZE	24104	511
D. THAT PATIGUE CRACK PROPAGATION CONDITIONS S	24104	512 512
HOULD BE STUDIED. IN ENGLISH.	24104	513
FATIGUE TESTING	24104	514
TESTING, PATIGUE	24104 24104	701 702
TESTING METHOD		702
HETHOD, TESTING	24104	701
24105	24104	011
KUDRJAVCEV,I.V.	24105	10
A METHOD FOR DETERMINING PATIGUE LIMIT BY TE	24105	201
STING A SINGLE SPECIMEN.=	24 105 24 105	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	202
INDUSTRIAL LABORATORY, 27, APR. 1961, PP.441-4	24105	251
• •	24105	252
RESULTS OF EXTENSIVE EXPERIMENTS ARE DESCRIBED WHICH WERE PERFORMED FOR VERIFICATION OF A ME	24105	501
	24105	502
THOD FOR ENDURANCE LIMIT DETERMINATION PROPOSE	24105	503 50
RESULTS OF EXTENSIVE EXPERIMENTS ARE DESCRIBED	24105	
WHICH WERE PERFORMED FOR VERIFICATION OF A ME	24 10 5	502
THOD FOR ENDURANCE LIMIT DETERMINATION PROPOSE	24105	503
D BY LOCATI. THE METHOD IS BASED ON MINER'S H	24 105	504
YPOTHESIS AND REQUIRES ONLY ONE TEST SPECIMEN	24105	505
FOR APPROXIMATE DETERMINATION OF ENDURANCE LIM	24 105	506
IT OF MACHINE PARTS. IT IS SHOWN THAT THE MET	24105	507
HOD YIELDS SATISFACTORY RESULTS WHEN IT IS REQ	24 10 5	508
UIRED TO DETERMINE THE RELATIONSHIP BETWEEN TH	24 105	509
E PATIGUE STRENGTH OF A GIVEN PART AND THE SAM	24105	510
E PROPERTIES OF A SET OF PARTS DETERMINED EARL	24105	511
IER BY CONVENTIONAL LONG-TERM TESTS. IN ENGLI	24 10 5	512
SR.	24105	513
FATIGUE TESTING	24105	701
TESTING, PATIGUE	24105	702
EXPERIMENTAL METHODS	24105	703
METHODS, EXPERIMENTAL	24105	704
24106	24106	001
CHECHULIN, B. B.	24106	101
THE SCALE PACTOR AND THE STATISTICAL NATURE	24106	201
OF THE STRENGTH OF METALS.=	24106	202
METALLURGIZDAT, MOSCOW, 1963	24106	351
THIS IS A REVIEW OF THE TITLE BOOK AS IT APPEA	24106	501
RED IN THE JOURNAL INDUSTRIAL LABORATORY, 30,	24106	502
AUG., 1964, PP. 1272-1273. IT WAS WRITTEN BY	24106	503
D. M. SHUR. IN ENGLISH.	24106	504
STATISTICAL ANALYSIS .	24106	701
SIZE EFFECTS	24106	702
MECHANICAL PROPERTIES	24106	703
24107	24107	011
ARONE, R.G.	24107	101
ON THE METHOD OF ASSESSING THE COLD BRITTLEN	24107	201
BSS OF STEEL DURING THE MONCENTRAL TENSILE LOA	24107	202
DING OF SPECIMENS WITH A TEMPERATURE GRADIENT.	24107	203
8	24107	204
INDUSTRIAL LABORATORY, 30, JULY, 1964, PP. 109	24107	251
7-1102	24107	252

٠.

; .,•

MODIFIED ROBERTSON TESTS ARE PERFORMED ON MILD	24107	5(
STEEL IN ASROLLED AND IMPROVED CONDITIONS (HE	24107	5(
AT THEATED) FOR TWO THICKNESSES. STATIC LOADI	24107	5(
NG IS USED FOR CRACK INITIATION AND THE TEST S	24107	50
PECIMENS HAVE A STEEP TEMPERATURE GRADIENT. A	24107	50
RREST TEMPERATURES WERE RECORDED FOR VARIOUS T YPES OF INITIAL NOTCHES, I.E. FOR VARIOUS LEVE	24107	50
LS OF NOMINAL STRESS. TYPICAL TRANSITION CURVE	24107	50
S WERE OBTAINED. SOME OBSERVATIONS INTO THE N	24107 24107	50 50
ATURE OF PLASTIC STRAINING AT THE CRACK TIP A	24107	50 51
RE REPORTED. IN ENGLISH.	24107	51
FRACTURE TESTING	24107	70
TESTING, FRACTURE	24107	70
MATERIALS, BRITTLENESS	24107	70
BRITTLEPESS, MATERIALS	24107	70
24108	24108	01
TRET JAKOV, A. V.	24108	10
TROFIMOV, G. K.	24108	10
EMPIRICAL EQUATIONS FOR DETERMINING THE MECH	24108	20
ANICAL CHARACTERISTICS OF COLD-WORKED STEELS.= INDUSTRIAL LABORATORY, 30, JULY, 1964, PP. 107	24108	20
7-1078	24108	25
EMPIRICAL RELATIONS ARE SHOWN WHICH RELATE ULT	24108 24108	25 50
IMATE STRENGTH, YIELD STRENGTH AND BRINELL HAR	24108	50
DNESS OF SEVERAL TYPES OF STEELS. IN ENGLISH.	24108	50
MECHANICAL PROPERTIES	24108	70
MATERIALS, TESTING	24108	70
TESTING, MATERIALS	24108	70.
24109	24109	01
ROZENSHTRIN, I.M.	24109	10
CHERNASHKIN, V.G.	24109	10:
INDUSTRIAL LABORATORY, 30, JULY, 1964, Pp. 109 3-1096	24109	25
AN ALTERNATIVE TO ROBERTSON TEST IS SUGGESTED	24109	25
TO INVESTIGATE STEEL BRITTLENESS. A TYPICAL S	24109 24109	50 50
TRESS-VSTEMPERATURE CRACK ARREST DIAGRAM IS	24109	50:
OPTAINED. TRANSITION BEHAVIOR IS SHOWN TO BE	24109	50
DEPENDENT ON SPECIMEN'S THICKNESS. IN ENGLISH	24109	50!
•	24109	500
FRACTURE TESTING	24109	70
TESTING, FRACTURE	24109	70:
MATERIALS BRITTLENESS	24109	70:
BRITTLENESS, MATERIALS	24109	70
24110	24110	00.
IVANOVA, V.S.	24110	10
PATIGUE FAILURE OF METALS.=	24110	20
METALLURGIZDAT, MOSCOW, 1963 THIS IS A REVIEW OF THE TITLE BOOK, WRITTEN BY	24110	35
I. V. KUDRJATSEV AND PUBLISHED IN INDUSTRIAL	24110	50
LABORATORY, 30, JUNE, 1964, P. 966.	24110 24110	50: 50:
FATIGUE TESTING	24110	70
TESTING, FATIGUE	24110	70:
PAILURE	24110	70
24111	24111	00
ERMOLOV, I. N.	24111	10
ULTRASONIC INSPECTION OF WELDED JOINTS.=	24111	20
STATE TECHNICAL AND THEORETICAL PRESS, UKR, SSR,	24111	35
KIEV, 1963 THIS IS A REVIEW OF THE TITLE BOOK AS IT HAS A	24111	35

+1

PPEARED IN INDUSTRIAL LABORATORY, 30, MAY, 196	24111	
4, P. 812.	24111	
METALS WELDING	24111	•
WELDING, MRTALS	24111	
WELDABILITY TESTING	24111	•
TESTING, WELDABILITY	24111 24112	
24112		•
TROYAN, J. A.  THE EFFECT OF THE LOADING FREQUENCY ON THE F	24112 24112	
ATIGUE STRENGTH OF "45" AND EI 612 STEELS.=	24112	•
INDUSTRIAL LABORATORY, 31, JULY, 1965, PP. 107	24112	
3-1074	24112	•
THE TITLE TOPIC IS INVESTIGATED FOR THE TWO MOV	24112	
THE TITLE TOPIC IS INVESTIGATED FOR THE TWO MOV	24112	
DEL MATERIALS SELECTED. IT IS SHOWN, THAT THE	24112	
INCREASE OF PATIGUE STRENGTH WITH FREQUENCY M	24112	
AY BE RELATED TO BEHAVIOR OF SUCH MATERIAL UND	24112	<del></del>
BR PRECONDITIONING. THE PREQUENCY STRENGTHENI	24112	
MG IS PRESENT WHEN THE MATERIAL UNDER CONSIDER	24112	<del>, _, _, _, _, _, _</del>
ATION LENDS ITSELF TO PRECONDITIONING AND VICE	24112	
VERSA. WHILE THIS MAY BE TRUE FOR THE MATERI	24112	
ALS TESTED, LITTLE IS OFFERED TO PROVE A GENER	24112	
AL RELATIONSHIP. IN ENGLISH.	24112	
FATIGUE TESTING	24112	
TESTING, FATIGUE	24112	
24113	24113	
PISARENKO, G. S.	24113	
CHERNEWKO, L.D.	24113	
GRYAZNOV, B. A.	24113	
LOW TEMPERATURE PATIGUE STRENGTH OF AXLE STE	24113	
EL IN THE INTERFERENCE - FITS ZONR.=	24113	
INDUSTRIAL LABORATORY, 31, JULY 1965, PP. 1069	24113	
-1072	24113	
IT IS SHOWN THAT BOTH SURPACE WORK-HARDENING (	24113	
BY ROLLING) AND LOW TEMPERATURE HAVE A VERY FA	24113	
VORABLE EFFECT ON PATIGUE LIFE. IN ENGLISH.	24113	
PATIGUE TESTING	24113 24113	
TESTING, PATIGUE	24113	
24114	24114	
OKERBLOM, N.O.	24114	
PLANNING OF PRACTICAL WELDED STRUCTURES AND TECHNOLOGICAL PROCESSES FOR FABRICATING THEM	24114	
BY MECHANICAL METHODS.=	24114	
AUTONATIC WELDING, JAN. 1961, P. 1-8	24114	
THIS IS A GENERAL ARTICLE ON THE TITLE TOPIC B	24114	•
UT IT CONTAINS SOME EXAMPLES OF PARTICULAR STR	24114	
UCTURES, WHICH ARE USEFUL IN SHIP BUILDING. T	24114	
ECHNOLOGICAL PROBLEMS, INCLUDING DISTORTION, R	24114	
ESIDUAL STRESSES, ETC. ARE DISCUSSED. THE AUT	24114	
HOR IS A LEADING SCIENTIST IN THIS FIELD. IN	24114	
ENGLISH.	24114	
STRUCTURES	24114	
WELDING TECHNIQUES	24114	
RESIDUAL STRESSES	24114	
24115	24115	
BAT'.A.A.	24115	<del></del>
THE FATIGUE STRENGTH OF WELDED JOINTS HADE O	24115	
F SIX TYPES OF STEEL.	24115	
AUTONATIC WELDING, JAN. 1961, Pp. 9-12	24115	

.

÷ --

THIS IS A DESCRIPTION OF FATIGUE BENDING TESTS	24115	501
OF WELDED I BEAMS WITH A STIFFENER UNDER APPL	24115	502
IED LOAD. FOR THE SIX STEELS AND WELDING PROC	24115	503
EDURES, THERE WAS A CONSIDERABLE SCATTER FOR E	24115	504
ACH BUT LITTLE DIFFERENCE FROM ONE TO ANOTHER.	24115	505
CONSTDERABLE WEAKENING CAN BE CAUSED WHEN TH	24115	506
E STIFFENER IS WELDED TO THE TENSION PLANGE.	24115	507
THE BEAMS WERE CONSIDERED AS FRACTURED WHEN TH	24115	<u>508</u>
E FATIGUE CRACK PENETRATED THE ENTIRE THICKNES	24115	509
S OF THE TENSION FLANGE. IN ENGLISH.	24115	<u>510</u>
PATIGUE TESTING	24115	701 702
TESTING, FATIGUE	24115 24115	702
STRUCTURES 24116	24115	011
DYATLOV, V.I.	24116	101
THE VOLT-AMPERE CHARACTERISTIC OF THE CONSTR	24116	201
ICTFD ARC.=	24116	202
AUTOMATIC WELDING, JAN. 1961, PP. 13-18	24116	251
A PROCEDURE IS GIVEN FOR CALCULATING THE VOLT-	24116	501
AMPERE CHARACTERISTICS OF CONSTRICTED ARCS, WH	24116	502
ICH ENABLES TO OBTAIN NUMERICAL VALUES FOR THE	24116	503
PRINCIPAL ELECTRICAL PARAMETERS OF THE ARC.	24116	504
THE TERM CONSTRICTED IS USED TO DENOTE AN ARC	24116	505
OF WHICH THE COLUMN IS FOR SOME REASON UNABLE	24116	506
TO EXPAND FREELY, E.G. BECAUSE OF SMALL ELECTR	24116	507
ODE DIAMETER, THE ARC BURNING IN A NARROW TUBE	24116	508 509
, ARTIFICAL COOLING OF THE PERIPHERAL ARC COLU	24116 24116	510
MN ZONES, ETC. IN ENGLISH. WELDING AUTOMATIC	24116	701
WELDING MANUAL	24116	702
WELDING TECHNIQUES	24116	703
24117	24117	011
LASHKO, N.F.	24117	101
LASHKO-AVAKYAN, S.V.	24117	102
HOT CRACKING DURING WELDING. =	24117	201
AUTOMATIC WELDING, JUNE 1961, PP. 33-42	24117	251
DETAILS ARE GIVEN OF THE MANY CIRCUMSTANCES UN	24117	501
DER WHICH HOT CRACKING MAY OCCUR DURING PUSION	24117	502
WELDING OF METALS. SPECIAL ATTENTION IS GIVE	24117	503 504
N TO RECENT THEORIES ON HOT CRACKING OF WELDS IN AUTOMATIC STEELS. IN ENGLISH.	24117 24117	505
TARTURE TREES. IN ENGLISH.	24117	701
WELDING TECHNIQUES	24117	702
WELDABILITY TESTING	24117	703
TESTING, WELDABILITY	24117	704
24118	2411R	011
MEL'NIKOV, N. P.	24118	101
GLADSHTEIN, L.I.	24118	102
MALYSHEV, B. D.	24118	103
THE PROBLEM OF USING HIGH-TENSILE STEELS FOR	24118	201
RELDED METAL STRUCTURES.=	24118	202
AUTOMATIC WELDING, JUN 1961, PP. 43-51	24118	251
THIS IS A GENERAL BUT VERY USEFUL ARTICLE DISC	24118	501
USSING THE PHILOSOPHY OF THE TITLE TOPIC. THR  EE WAYS OF STRENGTHENING ARE EXAMINED: BY ALL	24118 24118	502 503
EE WAYS OF STRENGTHENING ARE EXAMINED: BY ALL OYING, BY COLD PLASTIC DEFORMATION AND BY HEAT	24118	504 504
TREATMENT. WELDABILITY, RESISTANCE TO FRACTUR	24118	505
E AND ECONOMY FROBLEMS ARE DISCUSSED. A TABLE	24118	506
e see develui encepting and manuviduit. A laumm	m 7 ( 1 ()	240

.

į

IS GIVEN.	24118	5
STEELS, HIGH STRENGTH	24118	7
HIGH STRENGTH STEELS	24118	7
WELDABILITY TESTING	24118	7
TESTING, WELDABILITY	24118	7
24119	24119	Ó
KHRENOV, K.K.	24119	1
CERAMIC FUXES FOR AUTOMATIC ARC WELDING.=	24119	2
AUTOMATIC WELDING, DEC. 1960, Pp. 1-11	24119	2
QUESTIONS CONCERNING THE USE OF CERAMIC FLUXES	24119	5
AND THEIR CLASSIFICATIONS ARE EXAMINED. PLUX	24119	<del>'</del> 5
COMPOSITIONS AND DEPOSITED METAL COMPOSITIONS	24119	Ś
AND PROPERTIES ARE GIVEN. MAGNETIC PLUXES AR	24119	<del></del> 5
E STUDIED AND THE PREPARATION OF PLUXES DESCRI	24119	5
BED.	24119	<del></del> 5
	24119	7
WELDING, AUTOMATIC 24120	24120	0
	24120	1
ASNIS, A. E. KUCHUK - YATSENKO, S. I.	24120	<u>'</u>
•	24120	2
THE STATIC AND PATIGUE STRPNOTH OF FLASH BUT	24120	2
T WELDING JOINTS IN LARGE CROSS SECTION ROLLED	24120	2
SECTIONS.=	24120	2
AUTOMATIC WELDING, DEC. 1960, PP. 12-18	24120	5
PIGURES ARE GIVEN FOR THE STATIC AND FATIGUE S		5
TRENGTHS OF VARIOUS TYPES OF WELDEL JOINTS. I	24120	
T WAS ESTABLISHED THAT THE WELDING THERMAL CON	24120	
DITIONS AND WELD SHAPE AFFECT BOTH THE STATIC	24120	
AND FATIGUE STRENGTHS OF JOINTS, BUT IF THE WE	24120	
LDING PROCESS IS SUITABLE, THE UPSET METAL HAS	24120	5
NO EFFECT ON THE PATIGUE STRENGTH OF A WELDED	24 120	5
JOINT. IN ENGLISH.	24120	5
WELDING TECHNIQUES	24120	
FATIGUE TESTING	24120	7
TESTING, FATIGUE	24120	
24121	24121	(
MALEVSKII, JU.B.	24121	
MEDOVAR, B.I.	24121	
MANSHELET, G.P.	24121	
CHEMICAL COMPOSITION OF THE SIGMA PHASE IN A	24121	
USTENITIC 25-20 WELDS.=	24121	
AUTOMATIC WELDING, AUG 1959, PP. 26-28	24121	
VARIATIONS IN THE COMPOSITION OF THE SIGNA PHA	24121	
SE WITH RELATION TO THE CHEMICAL COMPOSITION O	24121	
S AGED AT 800° C ARE EXAMINED. IN ENGLISH.	24121	
F THE WELD METAL AND THE PERIOD FOR WHICH IT I	24121	
WELDAR LITY TESTING	24121	·
TESTING, WELDABILITY	24121	
24122	24122	(
LEBEDEV, V.K.	24122	
YAROWSKII, JU. D.	24122	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SIMILARITY CRITERIA USED FOR DETERMINING RES	24122	
ISTANCE WELDING CONDITIONS.=	24122	
AUTOMATIC WELDING, AUG 1959, PP. 29-36	24122	
SIMILARITY CRITERIA ARE GIVEN FOR THE ELECTRIC	24122	
AL, THERMAL AND MECHANICAL PROCESSES TAKING PL	24122	
ACE LURING RESISTANCE WELDING. RELATIONSHIPS	24122	
ARE ESTABLISHED DETWEEN THE INDIVIDUAL FACTORS	24122	
IN THE WELDING CONDITIONS AND THE LINEAR DINE	24122	!
NSIONS OF THE WORK PIECES. ACTUAL EXAMPLES AR	24122	

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E CITED FOR EXAMINING THE PRACTICAL CALIBRATIO	24 122	5
N OF APPROXIMATE (NON-POLAR) SIMULARITY. IN E	24122	5
NGLISH.	24122	5
WELDING TECHNIQUES	24122	7
24123	24123	0
ERRKHI', A. A.	24123	1
KUZNETSON, O. M.	24123	1
IMPROVING THE CAPACITY OF WELD METAL FOR RES	24123	2
ISTING HOT CRACKING. =	24123	2
AUTOMATIC WELDING, JUL 1964, PP. 1-5	24123	2
THIS IS A DESCRIPTION OF EFFECTS OF OXYGEN, MO	24123	5
LYBDENUM AND TUNGSTEN ON THE DEVELOPMENT OF PO	24123	5
LYGONISATION BOUNDARIES AND ON SENSITIVITY TO	24123	5
HOT CRACKING. MORE ATTENTION IS GIVE TO NICK	24123	5
EL BASE HIGH TEMPERATURE ALLOYS. IN MIGLISH.	24123	5
WELDABILITY TESTING	24123	7
TESTING, WELDABILITY	24123	7
24124	24124	Ó
PROKHOROV, N. N.	24124	1
ARUTYUNOVA,I.A.	24124	1
A SPECIMEN GIVING QUANTITATIVE RESULTS FOR U	24124	2
SE IN DETERMINING THE CAPACITY OF METALS FOR R	24124	2
ESISTING HOT CRACKING DURING CRYSTALLIZATION. =	24124	2
AUTOMATIC WELDING, JUL 1964, P. 6-10	24124	2
TECHNOLOGICAL TESTS ARE PROPOSED TO DETERMINE	24124	5
THE SENSITIVITY OF WELDED ALLOYS TO HOT CRACKI	24124	5
NG. SEVERAL SPECIMENS ARE DESCRIBED AND THEIR	24124	5
PERFORMANCE VERIFIED BY COMPARATIVE TESTS.	24124	5
WELDABILITY TESTING	24124	7
TESTING WELDABILITY	24124	7
24125	24125	0
RABKIN, D.M.	24125	1
RYABOV, V. R.	24125	1
THE WELDING OF CARBON STEEL TO ALUMINUM-MAGN	24125	2
ESIUM ALLOYS.=	24125	2
AUTOMATIC WELDING, JUL 1962, P. 1-7	24125	2
SUCCESSFUL EXPERIMENTS ARE DESCRIBED IN ARGON	24125	<u>-</u> 5
TUNGSTIN ARC WELDING OF A LOW CARBON STEEL, ON	24125	5
WHICH COMPOSITE LAYERS HAD BEEN ELECTRO-DEPOS	24125	<u>5</u>
ITED, TO 2-4 MM THICK ALUMINUM-MAGNESIUM ALLOY	24125	5
S. THE TECHNIQUE PRODUCES JCINTS BETWEEN THE	24125	5
ALLOY AND STEEL WITH TENSILE STRENGTHS OF ABOU	24125	5
T 28 KSI.	24125	5
WELDING TECHNIQUES	24125	
24126	24126	0
BEL'CHUK, G. A.	24126	1
PETRUSHIN, I. V.	24126	1
KOROBOV, P.D SIDOROV, A.D.	24126	1
CORROSION RESISTANCES OF WELDED JOINTS BETWE	24126	2
EN ALUMINUM ALLOYS AND STERL.=	24126	2
AUTOMATIC WELDING, JUL 1962, P. 8-11	24126	2
TESTS WERE PERFORMED ON CORROSION RESISTANCE O	24126	5
WELDED JOINTS BETWEEN ALUMINUM ALLOYS AND ST	24126	5
EEL IN SYNTHETIC SEA WATER. IT IS CONCLUDED T	24126	5
HAT THE CORROSION RESISTANCE OF JOINTS BETWEEN	24126	5
ALUMINUM ALLOYS AND GALVANIZED STEEL ARE SUFF	24126	5
ICIENTLY HIGH. A VARIETY OF SATISFACTORY WELD	24126	
	,24126	5
ING TECHNIQUES HAS BEEN DEVELOPED FOR VARIOUS		
TECHNOLOGICAL NEEDS.	24126	5

在市立一层等人的多。在李书本的第一层在社会的是是一种形式

CORROSION	24126	70
CORROSTON RESISTANCE	24126	7(
RESISTANCE, CORPOSION	24126	70
CORROSION PROTECTION	24126	70
PROTECTION, CORROSION 24127	24126	70
INDUSTRIAL LABORATORY	24127 24127	10
DISCUSSION OF THE METHODS FOR ASSESSING THE	24127 24127	20
TENDENCY OF HETALS AND ALLOYS TO BRITTLE PAIL	24127	2
URE. =	24127	20
INDUSTRIAL LABORATORY, 31, JAN 1965, P. 102	24127	2
THIS IS AN EDITORIAL INTRODUCTION TO A DISCUSS	24127	5
ION CONSISTING OF SEVERAL POLLOWING ARTICLES (	24127	50
24128 TO 24139) ON THE GENERAL PROBLEM OF PRAC	24127	5
TURE AND FATIGUE.	24127	5
WELDABILITY TESTING	24127	7
TESTING WELDABILITY	24127	7
	24128	0
GULTAEV, A.P.	24128	10
NIKITIN, V.N.	24128	10
A COMPARISON OF VARIOUS METHODS OF ASSESSING	24128	2
THE RESISTANCE OF STEELS TO BRITTLE FAILURE.=	24128	2
INDUSTRIAL LABORATORY, 31, JAN 1965, P. 103-10	24128	2'
8 CTV MEGULATERS MESS MESSURDE ADE COMPADED SO CT	24128 24128	2! 5
SIX MECHANICAL TEST METHODS ARE COMPARED TO GI	24128 24128	5(
VE A TRANSITION TEMPERATURE OR SCHE OTHER PARA METER DESCRIBING TEMPENCY OF MILD STEEL TO BRI	24128	5
TTLE PRACTURE. IT IS CONCLUDED THAT THERE IS	24128	5(
A WEAK CORRELATION BETWEEN INDIVIDUAL METHODS	24128	5
AND THAT THE MOST RELIABLE INDICATION OF FRACT	24128	5
URE RESISTANCE IS THE APPEARANCE OF FRACTURE S	24128	5
URFACE.	2412R	5
MATERIALS, BRITTLENESS	24128	7
BRITTLENESS, MATERIALS	24128	7(
FRACTURE TESTING	24128	7
TESTING, FRACTURE	24128	7
MATERIALS, TESTING	24128	7
TESTING MATERIALS	24128	7
24129	24129	0
GLADSHTPIN, L. I.	24129	1
RUDCHENKO, A. V.	24129 24129	1
ON THE DETERMINATION OF THE RESISTANCE OF ST	24129	2
RUCTURAL STEEL TO BRITTLE FAILURE. = INDUSTRIAL LABORATORY 31, JAN 1965, P. 109-119	24129	2
THIS IS A SHORT REVIEW ARTICLE ON BOTH RUSSIAN	24129	5
AND ENGLISH LITERATURE WHICH DEALS WITH TECHN	24129	5
OLOGICAL METHODS OF PRACTURE RESISTANCE DETERM	24129	5
INATION.	24129	5
MATERIALS, BRITTLENESS	4129	7
BRITTLENESS, MATERIALS	24129	7
PRACTURE TESTING	24129	7
TESTING, FRACTURE	24129	7
MATERIALS, TESTING	24129	7
TESTING MATERIALS	24129	7
24130	24130	0
BAGUZIN, V.I.	24130	1
NAVROTSKII, I.V.	24130	1
ON THE PROBLEM OF DETERMINING THE CRITICAL T	24130	2
EMPERATURE OF BRITTLENESS BY IMPACT TESTING.=	24130	2

...

INDUSTRIAL LABORATORY, 31, JAN 1965, P. 115-11	24130	25
Thoughting representation of the transfer to time it.	24130 24130	25 25
THIS IS A DESCRIPTION OF EXPERIMENTS WHICH WER	24130	50
E PERFORMED TO VERTEY AN EMPIRICAL METHOD, PRE	24130	50
PARED EARLIER BY DAVIDENKOV OF TRANSITION TEMP	24130	50
ERATURE DETERMINATION. IT IS SHOWN THAT THE M	24130	50
ETH ." IN QUESTION HAS SERIOUS LIMITATIONS.	24130	50
MATERIALS, BRITTLENESS	24130	70
BRITTLENESS, MATERIALS	24130	70
FRACTURE TESTING	24130	70
TESTING, FRACTURE	24130	70
24131	24131	01
ARONE, R.G.	24131	10
ON THE COLD BRITTLENESS OF STREL IN THE TWO-	24131 24131	<u>10</u> 20
DIMENSIONAL STRESSED CONDITION.=	24131	20
INDISTRIAL LABCRATORY, 31, JAN 1965, P. 119-12	24131	<u> 20</u>
3	24131	25
EXPERIMENTS ARE DESCRIBED TO ILLUSTRATE THE IM	24131	50
PORTANCE OF BIAXIAL TENSION IN TESTS OF THIN-W	24131	50
ALLED TUBULAR SPECIMENS AT VERY LOW TEMPERATUR	24131	50
ES. IT IS SHOWN THAT THE BLAXIAL STATE OF STR	24131	50
ESS CONTRIBUTES CONSIDERABLY TO BRITTLENESS AT	24131	50
SUCH TEMPERATURES.	24131	50
MATERIALS, BRITTLENESS	24131	70
BRITTLENESS, MATERIALS	24131	70
FRACTURE TESTING	24131	70
TESTING, PRACTURE	24 131	70
24132 VELIKANOV, A. V.	24132 24132	01
A METHOD FOR THE COMPARATIVE EVALUATION OF T	24132	10 20
HE TENDENCY OF STEEL TO THERMOMECHANICAL DAMAG	24132	20
E.=	24132	20
INDUSTRIAL LABORATORY, 31, JAN 1965, P. 124-12	24132	25
5	24132	25
THIS IS A SHORT ARTICLE ON THERMOMECHANICAL DA	24132	50
MAGE CAUSED TO RAILROAD WHRELS. IT IS CONCLUD	24132	50
ED THAT THE CARBON CONTENT SHOULD BE REDUCED T	24132	50
O PREVENT FATIGUE AND FRACTURE DAMAGE.	24132	50
MATERIALS BRITTLENESS	24132	70
BRITTLENESS, MATERIALS	24132	70
24133	24133	01
BALDIN, V. A.	24133	10
SOKOLOVSKII, P. T.	24133 24133	10 10
ARONE, R.G. ON METHODS FOR EVALUATING THE TENDENCY OF ST	24133 24133	20
RUCTURAL STEELS TO COLD BRITTLENESS. =	24133	20
INDUSTRIAL LABORATORY, 31, MAY 1965, P. 732-73	24133	25
L	24133	25
THIS IS A DISCUSSION OF THE TITLE TOPIC, WITH	24133	50
MAIN EMPHASIS ON IMPACT TESTS.	24133	50
MATERIALS, BRITTLENESS	24133	70
BRITTLENESS, MATERIALS	24133	70
PRACTURE TESTING	24133	70
TESTING, PRACTURE	24133	70
24134	24134	01
BORISOV, V.T.	24134	10
ON THE METHOD OF ASSESSING THE EFFECT OF THE	24134	20
TENDENCY OF A STEEL TO MECHANICAL AGEING ON I	24134	20

State of the state of

TS BRITTLENESS AND COLD BRITTLENESS.=	24134	2
INDUSTRIAL LABORATORY, 31, MAY 1965, P. 735-73	24134	2
6	24134	7
PRESTRAINED STEEL SPECIMENS WERE TESTED IN IMP	24134	
ACT BENDING IN ORDER TO SHOW THE INFLUENCE OF THE AMOUNT OF PRESTRAIN ON TRANSITION TEMPERAT	24 1 3 4	
URE.	<u>24134</u> 24134	
MATERIALS, BRITTLENESS -	24134	-
BRITTLENESS, MATERIALS	24134	
FRACTURE TESTING	24134	•
TESTING, FRACTURE	24134	
24135	24135	(
NOZYREVA, E.S.	24135	
ON THE CRITERIA OF COLD BRITTLENESS IN TESTI	24135	
NG STEELS FOR IMPACT STRENGTH.=	24135 24135	
INDUSTRIAL LABORATORY, 31, MAY 1965, P. 707-74	24135	
1	24135	
SIXTEEN CARBON STEELS WITH VARIOUS CONTENTS OF	24135	
CARBON (FROM 0.04% TO 0.27%) AND MANGANESE (0	24135	
.09% TO 2.41%) WERE IMPACT TESTED BOTH IN ANNF	24135	
ALED AND "IMPROVED" CONDITIONS. PRACTURE APPE	24135	
ARANCE AND IMPACT STRENGTH VALUES ARE PLOTTED	24135	(
AGAINST TEMPERATURE OF TESTING. IT APPEARS TH AT THE QUENCHING AND ANNEALING PROCESS USED FO	24135 24135	
R "IMPROVING" HAS INDEED A FAVORABLE EFFECT ON	24135 24135	•
FRACTURE RESISTANCE.	24135	
FRACTURE TESTING	24135	•
TESTING, PRACTURE	24135	
MATERIALS, BRITTLENESS	24135	•
BRITTLENESS, MATERIALS	24135	
24136	24136	
BORISOV, P.P. ANUCHKIN, M.P.	24136 24136	
A METHOD FOR INVESTIGATION THE RESISTANCE OF	24136	
STEEL TO BRITTLE FRACTURE UNDER A LOAD WITH V	24136	
ARYING AMOUNTS OF STORED EL'ASTIC ENERGY.=	24136	· · · · · · · · · · · · · · · · · · ·
INDUSTRIAL LABORATORY, 31, MAY 1965, P. 742-74	24136	
5	24136	
THIS IS A DESCRIPTION OF AN INSTRUMENTED MACHI	24136	
NE, WHERE THE SPECIMEN IS PRESTRAINED ELASTICA	24136	
LLY IN TENSION PRIOR TO FRACTURE. IT APPEARS THAT THE ENERGY STORED IN THE SPECIMEN DURING	24136 24136	
PRESTRAINING REDUCES SOMEWHAT THE ENERGY ABSOR	24136	
D DURING FRACTURE. THERE IS, HOWEVER, A LIMIT	24136	
TO THIS EFFECT, AND LARGER AMOUNTS OF STORED	24136	
ENERGY SHOW LITTLE EFFECT.	24136	
FRACTURE TESTING	24136	
TESTING, PRACTURE	24136	
TESTING METHODS	24136	•
METHODS, TESTING	24136	
24137	24137 24137	· <del></del>
STEPANOV, G. A.	24137 24137	
MIKHAILOVA, H.F. ON THE EFFECT OF THE SPECIMEN THICKNESS ON T	24137	•
HE POSITION OF THE REGION OF BRITTLE-DUCTILE P	24137	·
RACTURE. =	24137	
INDUSTRIAL LABORATORY, 31, MAY 1965, P. 746-74	24137	
7	24137	

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A METHOD IS DESCRIBED WHICH CAN BE USED TO PER	24137	50
FORM NOTCHED BEND IMPACT TESTS ON THESE MATERI	24137	50
ALS. IT APPEARS THAT THE TRANSITION TEMPERATU	24137	50 50
RE IS NOT MUCH CHANGED IF A COMPARABLE, MULTIL	24137	50 50
AYER SPECIMEN, JOINED BY RIVETS AT ENDS, IS TE	24137 24137	50
STED INSTEAD OF A SINGLE LAYER. HOWEVER, THE TRANSITION TEMPERATURE FOR A GIVEN THICKNESS O	24137	50 50
P A LAYER DECRESES RAPIDLY WITH DECREASE IN TH	24137	50
ICKNESS.	24137	50
SIZE EFFECTS	24137	70
FRACTURE TESTING	24137	70
TESTING, FRACTURE	24137	70
24138	24138	01
MYADZELETS, E.N.	24138	10
KUKHAR, JU.P.	24138	10
A METHOD FOR DETERMINING THE EFFECTIVE STRES	24138	20
S CONCENTRATION FACTOR TAKING INTO ACCOUNT THE	24138	20
EFFECT OF SPECIMEN'S LENGTH.=	24138	20
INDUSTRIAL LABORATORY, 31, MAY, 1965, P. 748-7	24138	25
49.	24138	25
THE EFFECT OF SPECIMEN'S LENGTH ON THE EFFECTI	24138	50
VE STRESS CONCENTRATION FACTOR DURING PURE CYC	24138	50
LIC BENDING IS CONSIDERED FOR SPECIMENS WITH V	24138	50
ARIOUS DIAMETERS.	24138	50
FATIGUE TESTING	24138	70
TESTING, FATIGUE	24138	70
SIZE EFFECT	24138	70
24139 SHABALIN, V. I.	24139 24139	01 10
THE EFFECT OF THE PREQUENCY OF CYCLIC STRESS	24139	20
ON THE PATIGUE STRENGTH OF LOW CARBON STRUCTU	24139	20
RAL STREL.=	24139	20
INDUSTRIAL LABCRATORY, 31, MAY 1965, P. 750-75	24139	25
1	24139	25
THIS IS A STUDY IN THE EFFECT OF PREQUENCY ON	24139	50
FATIGUE STRENGTH OF A CHROME-MANGANESE STEEL.	24139	50
IT IS FOUND THAT THERE IS LITTLE EPPRCT IN SM	24139	50
OOTH SPECIMENS, BUT FOR NOTCHED SPECIMENS THE	24139	50
SERVICE LIFE IMPROVES 2-4 TIMES FOR PREQUENCY	24139	50
INCREASE FROM 20 TO 3000 CPM.	24139	50
FATIGUE TESTING	24139	70
TESTING, FATIGUE	24139	70
24140	24140	01
JENTZSCH, H.	24140	10
WOOD FOR SHIPBUILDING AND NAVIGATION.=	24 140	20
SCHIFF UND HAFEN, 10, JAN 1958, P. 49-53	24140	<u>25</u>
THIS IS A GENERAL ARTICLE WHICH QUOTES SOME DA	24140	50 50
TA ON USE OF WOOD IN SHIPBUILDING AND GIVES ME	24140 24140	50
CHANICAL PROPERTIES REQUIRED BY GERMAN STANDAR	24 140 24 14 0	50 50
DS. IT ALSO MENTIONS PROTECTION AND FIRE PREVENTION.	24140	50 50
ENTION. SHIPBUILDING MATERIALS	24140	70
MATERIALS SHIPBUILDING	24140	70
24141	24141	01
SCHMIDT,G.	24141	10
NEW APPLICATIONS OF CAST STEEL IN SHIPBUILDI	24141	20
NG.=	24141	20
SCHIPF UND HAPEN, DEC 1959, P. 1737-1139	24141	25
THIS IS A REPRINT OF A LECTURE WHICH DESCRIBES	24141	50

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The state of the s

SOME LARGE STRUCTURAL PARTS (CRANKSHAFTS, RID	24141	50
DER SHAFTS, STEMS) WHICH WERE MADE OF CAST STE	24141	50
EL. TECHNOLOGY, MECHANICAL PROPERTIES AND FRA	24141	50
CTURE RESISTANCE CHARACTERISTICS ARE BRIEFLY L	24141	50
ISTED.	24141	50
SHIPBUILDING STEELS	24141	70
STEELS, SHIPBUILDING	24141	70
24142 -	24142	01
POEL,G.	24142	10
USE OF CAST IRON IN SHIPRUILDING.=	24142 24142	25
SCHIFF UND HAFEN, DEC 1959, P. 1140-1142 THIS IS A REPRINT OF A LECTURE. IT DISCUSSES	24142 24142	50 50
BRIEFLY USE OF NODULAR CAST IRON AN MANUFACTUR	24142	<u>5</u> (
E OF LARGE SHIP PARTS.	24142	5(
MATERIALS, SHIPBUILDING	24142	7(
SHIPBUILDING MATERIALS	24142	70
24143	24143	<del></del>
SCHULLER, A.	24143	10
THIELMANN, H.	24143	<u>'</u> .\ 1(
MENKE, L.	24143	10
ROSLER, U.	24143	1(
STAUTSWASSER, W.	24143	10
HCPMANN, W.	24143	1(
WOLFF, L.	24143	10
SCHREINER, H.	24143	10
SCHHIDT, P.	24143	10
ANNUAL MEETING ON WELDING TECHNOLOGY, 1959.=	24143	20
SCHIFF UND HAPEN, JUL 1959, P. 654-660	24143	2!
THIS IS A COLLECTION OF 13 SHORT ABSTRACTS OF	24143	50
PAPERS WHICH WERF PRESENTED AT THE TITLE MEETI	24143	5(
NG OF THE GERMAN WELDING SOCIETY. IT DEALS WI	24143	5(
TH VARIOUS ASPECTS OF APPLICATION OF WELDING I	24143	5(
N CONSTRUCTION OF NUCLEAR REACTORS. FOR CONTI	24143	50
NUATION SEE 24148.	24143	50
METALS, WELDING	24143	7
WELDING, METALS	24143	7
POWER PLANTS, NUCLEAR	24143	70
NUCLEAR POWER PLANTS	24143	7
WELDING EQUIPMENT	24143	7
WELDING TECHNIQUES	24143	70
24144	24144	0
AGAPOV, R.D.	24144	10
ADDITION OF FATIQUE LIVES ON THE BASIS OF FQ	24144 24144	2( 2(
UAL PROBABILITY OF EQUAL DAMAGE. =	24144	2
INDUSTRIAL LABCRATORY, 31, JUN 1965, P. 890-89	24144	2: 2:
5 - ADOLARTY THE MEMUON TO CHOOPEMEN PAR ACCRECTA	24144	5
A PROBABILITY METHOD IS SUGGESTED FOR ASSESSIN	24144	5(
G THE PATIGUE STRENGTH WHEN THE STRESS RANGE V	24144	5
ARIES WITH TIME. SEPARATE RELATIONSHIPS ARE D	24144	5
PRIVED FOR ACCUMULATION AND ADDITION OF DAMAGE PROM THE RANDOM VALUES. AN EXAMPLE OF SIMULT	24144	5
PROM THE RANDOM VALUES. AN EXAMPLE OF STRUCT  ANEOUS STATISTICAL AND PUNCTIONAL ANALYSIS IS	24144	.5
	24144	<u>5</u> (
GIVEN.	24144	7
PATIGUE TESTING	24144	7
TESTING, PATIGUE STATISTICAL ANALYSIS	24144	7
SIRIADIICAD RUBDISAS	24145	0
		~
24145 Gusenkov, A. P.	24145	10

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The state of the s

SHNEIDEROVICH, R. M.	24145	10
SOME FEATURES OF RUPTURE IN LOW-CYCLIC TENST	24145	2
ON-COMPRESSION LOADING.=	24145	20
INDUSTRIAL LABORATORY, 31, JUN 1965, P. 885-88	24145	2
9	24145	2!
TWO TYPES OF FRACTURE CAUSED BY TENSILE-COMPRE	24.145	5(
SSION LOAD APPLIED AT LOW CYCLES-QUASISTATIC A	24145	5(
ND FATIGUE FRACTURE-ARE CONSIDERED. SCHEMATIC	24145	5(
AND EXPERIMENTAL FRACTURE CURVES ARE GIVEN AN	24145	50
D COMPARED FOR VARIOUS DEGREES OF CYCLE ASYMME	24145	50
TRY AND VARIOUS MATERIALS WITH DIFFERENT PROPE	24 145	5(
RTIES.	24145	5(
FRACTURE TESTING	24145	70
TESTING, PRACTURE	24145	70
FATIGUE TESTING	24145	70
TESTING, FATIGUE	24145	7(
MECHANICAL PROPERTIES	24145	70
24146	24146	01
KOGAEV, V. P.	24146	10
SERENSEN, S. V.	24146	10
A STATISTICAL METHOD FOR THE ASSESSMENT OF T	24146	20
HE EFFECT OF STRESS CONCENTRATIONS AND ABSOLUT	24146	20
E DIMENSIONS ON PATIGUE STRENGTH.=	24146	20
INDUSTRIAL LABORATORY, 28, JAN 1962, P. 80-87	24146	25
THIS IS A DESCRIPTION OF A NEW STATISTICAL MET	24146	50
HOD WHICH, BY USING WEILBULL'S THEORY, CAN PRE	24146	50
DICT THE FATIGUE STRENGTH OF A GIVEN PART FOR	24146	5(
A GIVEN PROBABILITY OF FAILURE.	24146	5(
PATIGUE TESTING	24146	70
TESTING, FATIGUE	24146	70
STATISTICAL ANALYSIS	24146	70
SIZE RPYECT	24146	70
MATERIALS TESTING	24 146	70
TESTING, MATERIALS	24146	70
24147	24147	01
MARKOVETS, M. P.	24147	10
ON THE EQUATION OF THE PATIGUE CURVE.=	24147	20
INDUSTRIAL LABORATORY, 28, JAN 1962, P. 88-92	24147	25
AN EQUATION OF FATIGUE CURVE IS DERIVED WHICH	24147	5(
PREDICTS THE NUMBER OF CYCLES TO RUPTURE AS A	24147	5(
FUNCTION OF APPLIED STRESS. IT IS ASSUMED THA	24147	5(
T THERE IS LITTLE RATE DEPENDENCE IN THE MECHA	24147	5(
NISM OF PLASTIC STRAIN AND THEREFORE THE PREDI	24147	5(
CTION IS PARTLY BASED ON THE WORK HARDENING CU	24147	50
RVE UNDER STATIC LOAD.	24 147	5(
FATIGUE TESTING	24 147	70
TESTING, FATIGUE	24147	7(
MATERIALS TESTING	24147	70
TESTING, MATERIALS	24147	70
24148	24148	01
CLASS, I.	24148	1(
SIMON, R.	24148	10
LUTHY, A.	24148	1(
LUDEWIG, M.	24148	10
KOBITZSCH, R.	24148	1(
ANNUAL MEETING ON WELDING TECHNOLOGY, 1959.=	24148	2(
SCHIFF UND HAFEN, AUG 1959, P. 774-776	24148	2
THIS IS A CONTINUATION OF REFERENCE 24143. ST	24148	5(
X SHORT ABSTRACTS OF LECTURES ARE PRESENTED ON	24148	50

L		
VARIOUS ASPECTS OF APPLICATION OF WELDING IN	24148	503
CONSTRUCTION OF NUCLEAR REACTORS.	24148	504
MRTALS, WFLDING	24148	701
WELDING, HETALS	24148	702
POWER PLANTS, NUCLEAR	24148	703
MUCLEAR POWER PLANTS	24148	704
WELDING EQUIPMENT	24148	705
WELDING TECHNIQUES	24148	706

ı

	3,0001	30001	011
<b>7</b> –	LUKYANOV, V. B.	30001	
¥ _	MAKAROV, A. V.	30001	101 102
# B	FEDIN, A. D.	30001	103
<b>D</b>	USE OF MATHEMATICAL STATISTICS IN TESTING RA	30001	103 <b>*</b> 201 *
	DIOMETRIC EQUIPMENT. =	30001	202
Ī	INDUSTRIAL LABORATORY, 29, JUL 1963, P. 906-91	30001	251 <sup>*</sup>
P	0	30001	252
_	A TECHNIQUE IS SUGGESTED FOR THE STATISTICAL T	30001	501
₹ a·	ESTING OF THE STABILITY OF OPERATION OF RADION	30001	502
<b>)</b> _	ETRIC EQUIPMENT. THE THEORY OF POISSON'S DIST	30001	503
Ĭ	RIBUTION IN THE ABSENCE OF THE INSTRUMENTAL ER	30001	504
<b>I</b> _	RCR IS USED. IN CASE OF LARGE INSTRUMENTAL ER	30001	505_
P	RORS, THE TESTING IS PERFORMED BY DISPERSION A	30001	506
1	NALYSIS METHODS BY EVALUATION OF DISPERSION OF	30001	507
Ī	PALSE SIGNALS.	30001	508 .
P	STATISTICAL ANALYSIS	30001	701_
	HEASUREMENT, EQUIPMENT	30001	702
<b>b</b>	EQUIPMENT, MEASUREMENT	30001	703
	30002	30001	70.3 011
<b>—</b>	AIVAZYAN, S. A.	30002	101
į,	THE USE OF CORRELATION AND REGRESSION METHOD	30002	201
<b>—</b>	S IN THE PROCESSING OF LXPERIMENTAL RESULTS (A	30002	202
	N OUTLINE) =	30002	203
1	INDUSTRIAL LABORATORY, 30, JUL 1964, P. 1042-1	30002	251
	064	30002	252
<b>E</b> —	THIS IS THE FIRST PART OF AN EXTENSIVE EXPOSIT	30002	501
<b>5</b>	ION OF THE TITLE SUBJECT WRITTEN FOR USE BY EN	30002	502
	GINEERS WHO ARE NOT ACQUAINTED WITH THE THEORY	30002	503
	OF PROBABILITY AND MATHEMATICAL STATISTICS (C	30002	504
þ	F REF. 30003). THE OUTLINE INCLUDES COMPLETE	30002	505
<b>§</b>	AND CORRECT MATHEMATICAL BACKGROUND WHICH IS S	30002	506
	UFFICIENT FOR APPLICATION OF THE TITLE METHODS	30002	507
}	IN ENGINEERING PROBLEMS. IN ENGLISH.	30002	508
	MATHEMATICAL METHODS	30002	701
<b>I</b>	METHODS, MATHEMATICAL	30002	702
r	STATISTICAL ANALYSIS	. 30002	703.
<b>I</b> —	30003	30003	011
	AIVAZYAN, S. A.	30003	101
<b>}</b>	THE USE OF METHODS OF CORRELATION AND REGRES	30003	201
Ī	SION ANALYSIS IN THE PROCESSING OF EXPERIMENTA	30003	202
[ <u> </u>	L RESULTS (REVIEW, PART II).=	30003	203
ľ	INDUSTRIAL LABORATORY, 30, AUG 1964, P. 1204-1	30003	251
<b>j</b>	229	30003	252
	THIS IS A CONTINUATION OF THE REF. 30002.	30003	501
<b>?</b> —	MATHEMATICAL METHODS	30003	701
	METHODS, MATHEMATICAL	30003	702
<b>!</b>	STATISTICAL ANALYSIS	30003	<u>703</u> •

LJUSH, D.V. COMMUNICATION, OBSERVATION AND COMMAND SYSTE MS ON THE NUCLEAR ICEBREAKER LENIN.= SUDOSTROENIE, 27, AUG 1961, PP. 18-21
THIS \*\*ARTICLE HAS APPEARED IN A SPECIAL NUMBER
OF SUDOSTROENIE WHICH REFERS TO ICEBREAKER LEN IN ONLY. 

A GURMARIZED DESCRIPTION OF COMMUNICATION AND	37061 504	<i>j</i> .
OF OTHER RELATED SYSTEMS IS GIVEN. PARTICULAR	37001 501	څ
TOPICS ARE TELEPHONE SYSTEMS. TILETYPE SYSTE	37001 500	5
MS, REMOTE CONTROL, MEASUREVENT AND SIGNAL SYS	37001 50	
TEMS, FIRE ALARM SYSTEMS, SYSTEM FOR LIQUID LE	37001 508	
VE' CONTROL, TIME CONTROL DEVICES, NAVIGATIONA	37001 509	9
L AIDS, RAPARS, RADIO EQUIPMENT, TELEVISION EQ	37001 510	
	· ·	_
UIPMENT AND OTHERS. TRANSLATION RECOMMENDED.	37001 51	
SYCTEMS COMMAND	37001 700	1
SYSTEMS COMMUNICATION	37001 703	2
ICEBREAKER LENIN	37001 70	
	-	
LENIN ICEBREAKER	37001 70	4
ICTHREAKERS, SYSTEMS	37001 70	5
SYSTEMS, ICEBREAKERS	_	
	·	
37002	37002 01	0
DEMIN.I.	37002 10	1
DETERMINATION OF ICE DISTRIBUTION BY SHIP RA	37002 20	
The state of the s		
DARC .=	37002 203	
MORGKOJ FLOT, 21, MAR 1961, PP. 12-14	37002 25	1
THIS IS BRIEF ANALYSIS OF THE TITLE SUBJECT.	37002 50	
IT IS CONCLUDED THAT RADARS OF TYPES NEPTUN-M	37002 50	
AND DON ARE QUITE SUITABLE FOR DETERMINATION O	37002 503	3
F ICE DISTRIBUTIONS. BEST ACCURACY OF OBSERVA	37002 50	4
TION IS REACHED WHEN ICE FIELDS ARE ROUGHED AN	37002 50	
D COMPACT. BROKEN ICE AND FIELDS OF FLOWS ARE	37002 50	5
UQUALLY OVERESTIMATED IN SIZE AND DENSITY. T	37002 50	7
RANGLATION OPTIONAL.	37002 50	
ICE CONDITIONS, FORECAST	37002 70	
FORECAST, ICE CONDITIONS	37002 70.	2
SHIPS, SYSTEMS	37002 703	3
SYSTEMS. SHIPS	37002 70	
37003	37003 01	
LOGINOV,K.	37003 10	1
ON AUTOMATION OF COMPUTATIONS DURING NAVIGAT	37003 20	1
	37003 20	
ION IN ICE.=		
MORSKOJ FLOT, 16, APR 1956, PP. 21-23	37003 25	
THIS IS AN EXPLANATION OF A METHOD OF INSTANT	37003 50	1
POSITION CALCULATION WHICH WAS DEVELOPED BY TH	37003 50	2
E AUTHORS AND USED IN 1952 AND 1953 ON ICEBREA	37003 50	
KER I. STALIN. THE EQUIPMENT USED IS DESCRIBE	37003 50	4
D IN DETAIL. TRANSLATION OPTIONAL.	37003 50	5
ICEBREAKERS, NAVIGATION SYSTEMS	37003 70	
	· · · · · · · · · · · · · · · · · · ·	
NAVIGATION SYSTEMS, ICEBREAKERS	21003	
<i>3</i> 7004 <i>;</i>	37004 01	٥
KOTJUK,A.	37004 10	1
	37004 20	
ANALYSIS OF RADAR SIGNALS REFLECTED FROM ICE		
•=	37004 20	2
MORSKOJ FLOT, 23, MAY 1963, PP. 17-19	37004 25	1
THE TITLE TOPIC IS DISCUSSED WITH SOME DETAIL	37004 50	
	<del>-</del>	
AND VARIOUS ASPECTS OF RADAR OBSERVATION OF I	37004 50	
CE FIELDS ARE MENTIONED. TRANSLATION OPTIONAL	37004 50	3
•	37004 50	4
ICE CONDITIONS, EODECAST	37004 70	
ICE CONDITIONS, FORECAST		
FORECAST, ICE CONDITIONS	37004 70	
37005 .	37005 01	0
SE'_IVANOV, M.	37005 10	
A THEODOLITE FOR POSITION DETERMINATION OF A	37005 20	
SHIP DURING NAVIGATION IN ICE.=	37005 20	
MORSKOJ FLOT, 23, APR 1963, PP. 19-21	37005 <b>25</b>	1
THIS IS A DETAILED AND ELEMENTARY DESCRIPTION	37005 * 50	
HILD TO A DELYTEED MAD EFFERTAINED PROCESS, STOR	21002	•

The state of the s

OF A METHOR: OF FOSITION DETERMINATION OF ICEHR         37095         592           EARCER'S DURING THE PULAR NIGHT: A REGULAR THEO         37005         502           DOLITE IS UISED FOR MEASUREMENTS HARED ON OBSER         37005         504           WATION OF STAPS AND ON RECORDING OF TIME OF TH         37005         506           EIR RELATIVE MOTICIN. IY IS STATED THAT SUCH A         37005         506           METHOD ASS USED IN MINTER OF 1961 OX THE LENI         37005         506           N I CERREAKEP. MEASUREMENTS MERE PURPOMED BOT         37005         507           NSLATION OPTIONAL,         37005         507           ICEPRCAKERS, NAVIGATION SYCTEMS         37005         37005           NALIGATION, SYSTEMS, ICEBREAKERS         37005         37006           STOOL         37006         37006           SHALAGIMOY, A.         37006         37006           SHALAGIMOY, A.         37006         37006           SHALAGIMOY, A.         37006         37006           SHALAGIMOY, A.         37006         37006           SMARKON FLOT, 2.         20. CT 1963, PP. 21-24         37006           THIC IS A DETAILED AND ZELMENTARY DESCRIPTION         37006         3706           MORKAO, FLOT, 2.         20. CT 1963, PP. 21-24         37006			
DALTE IS USED FOR MEASUREMENTS HASED ON OBSER  37005  0011TE IS USED FOR MEASUREMENTS HASED ON OBSER  37105  204 MATION OF STARS AND OR RECORDING OF TIME OF TH  27005  266  METHOD WAS USED IN WINTER OF 1961 OR THE LENI  37005  37005  37005  37005  37005  37005  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37006  37007  MATION SYSTEMS, ICEBREAKERS  37006  37006  37007  37006  37007  37006  37007  37006  37007  37006  37007  37006  37007  37006  37007  37006  37007  37006  37007  37006  37007  37006  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008  3008	AE A VETHOL: OF POSITION DETERMINATION OF 1/540	070(.5	E ^ 2
DOLITE IS USED FOR MEASUREMENTS HASED ON OBSCR  VATION OF STAPS AND ON RECORDS HASED ON OBSCR  VATION OF STAPS AND ON RECORDS OF TIME OF TH  EIR RELATIVE MOTICAL. IT IS STATED THAT SUCH A  A 77005 505  RETHOD WAS USED IN WINTER OF 1961 OR THE LENI  37005 507  N ICERPEAKER, MEASUREMENTS WERE PERFORMED BOT  N ICERPEAKER, MANIGATION SYSTEMS  37005 510  NELATION OPTIONAL.  16FHERAKERS, NAVIGATION SYSTEMS  37005 702  SMALAGIMOV,A.  37006 703  SMALAGIMOV,A.  37006 101  DURING NAVIGATION IN ICE.=  MORKOD FLOTE 23  MOR		5,007	2,2
VATION OF STAPS AND ON RECORDING OF TIME OF TH  EIR RELATIVE MOTICAL IT IS STATED THAT SUCH A  METHOD WAS USED IN WINTER OF 1961 ON THE LERI AT 37005 506  METHOD WAS USED IN WINTER OF 1961 ON THE LERI AT 37005 506  MOT THE SHIP AND ON THE SURROUNDING ICE. TRA 37005 506  MON THE SHIP AND ON THE SURROUNDING ICE. TRA 37005 506  MON THE SHIP AND ON THE SURROUNDING ICE. TRA 37005 506  MON THE SHIP AND ON THE SURROUNDING ICE. TRA 37005 506  MONALAGINO SYSTEMS, ICERREAKERS 37005 702  37006 37005 37006 3100  SMALAGINOV, A. 37006 201  DURING NAVIGATION IN ICE.= 37006 201  DURING NAVIGATION IN ICE.= 37006 201  MORKOJ PLOT, 239, 30C1 1963, PP. 21-24 37006 201  MORKOJ PLOT, 239, 30C1 1963, PP. 21-24 37006 201  THIS IS A DETAILLD AND ZERMENTARY DESCRIPTION 37006 501  FOR POSITION CALCULATIONS DURING NAVIGATION I 37006 502  FOR POSITION CALCULATIONS DURING NAVIGATION I 37006 502  FOR POSITION CALCULATIONS DURING NAVIGATION I 37006 503  MAVIGATION SYSTEMS, ICEBREAKERS 37006 702  37007 37007 37007 202  INALIENT TO A SELF-ADJUSTING SYSTEMS 37006 702  MALIENT TO A SELF-ADJUSTING SYSTEMS 37007 202  THE INVARIANT PROPERTIES OF A COMMINCO SHIP AU 37007 202  TOMATIC REGULATION SYSTEM MITH RIGID STRUCTURE 37007 302  TO STORY CAN-LILL MORSKOOD FLOTA 551 1964, P. 28- 37007 202  TOMATIC REGULATION SYSTEMS 37007 302  TO SHIPS, NAVIGATION SYSTEMS 37008 37007 302  THE INVARIANT PROPERTIES OF A COMMINCO SHIP AU 37007 302  TO SHIPS, NAVIGATION SYSTEMS 37007 302  THE INVARIANT PROPERTIES OF A COMMINCO SHIP AU 37007 302  THE INVARIANT PROPERTIES OF THIS TYPE, WHICH 37007 302  THE INVARIANT PROPERTIES OF THIS TYPE, WHICH 37007 302  THE INVARIANT PROPERTIES OF THIS TYPE, WHICH 37007 302  THE INVARIANT PROPERTIES OF A COMMINCO SHIP AU 37007 302  THE STRUCK CONSTRUCTION PROGRAM ARE ANALYZED. 37007 302  THE STRUCK CONSTRUCTION PROGRAM ARE ANALYZED. 37007 302  THE STRUCK CONSTRUCTION PROGRAM ARE ANALYZED. 37008 302  THE STRUCK CONSTRUCTION PROGRAM ARE ANALYZED. 37008 302  THE STRUCK CONSTRUCTION THE STRUCK ON S 37008 302  THE STRUCK CONSTRUCTION THE	EARERS CORING THE POLAR NIGHT A REGULAR THPO	37000	203
VATION OF STAPS AND ON RECORDING OF TIME OF TH  EIR RELATIVE MOTICAL IT IS STATED THAT SUCH A  METHOD WAS USED IN WINTER OF 1961 ON THE LERI AT 37005 506  METHOD WAS USED IN WINTER OF 1961 ON THE LERI AT 37005 506  MOT THE SHIP AND ON THE SURROUNDING ICE. TRA 37005 506  MON THE SHIP AND ON THE SURROUNDING ICE. TRA 37005 506  MON THE SHIP AND ON THE SURROUNDING ICE. TRA 37005 506  MON THE SHIP AND ON THE SURROUNDING ICE. TRA 37005 506  MONALAGINO SYSTEMS, ICERREAKERS 37005 702  37006 37005 37006 3100  SMALAGINOV, A. 37006 201  DURING NAVIGATION IN ICE.= 37006 201  DURING NAVIGATION IN ICE.= 37006 201  MORKOJ PLOT, 239, 30C1 1963, PP. 21-24 37006 201  MORKOJ PLOT, 239, 30C1 1963, PP. 21-24 37006 201  THIS IS A DETAILLD AND ZERMENTARY DESCRIPTION 37006 501  FOR POSITION CALCULATIONS DURING NAVIGATION I 37006 502  FOR POSITION CALCULATIONS DURING NAVIGATION I 37006 502  FOR POSITION CALCULATIONS DURING NAVIGATION I 37006 503  MAVIGATION SYSTEMS, ICEBREAKERS 37006 702  37007 37007 37007 202  INALIENT TO A SELF-ADJUSTING SYSTEMS 37006 702  MALIENT TO A SELF-ADJUSTING SYSTEMS 37007 202  THE INVARIANT PROPERTIES OF A COMMINCO SHIP AU 37007 202  TOMATIC REGULATION SYSTEM MITH RIGID STRUCTURE 37007 302  TO STORY CAN-LILL MORSKOOD FLOTA 551 1964, P. 28- 37007 202  TOMATIC REGULATION SYSTEMS 37007 302  TO SHIPS, NAVIGATION SYSTEMS 37008 37007 302  THE INVARIANT PROPERTIES OF A COMMINCO SHIP AU 37007 302  TO SHIPS, NAVIGATION SYSTEMS 37007 302  THE INVARIANT PROPERTIES OF A COMMINCO SHIP AU 37007 302  THE INVARIANT PROPERTIES OF THIS TYPE, WHICH 37007 302  THE INVARIANT PROPERTIES OF THIS TYPE, WHICH 37007 302  THE INVARIANT PROPERTIES OF THIS TYPE, WHICH 37007 302  THE INVARIANT PROPERTIES OF A COMMINCO SHIP AU 37007 302  THE STRUCK CONSTRUCTION PROGRAM ARE ANALYZED. 37007 302  THE STRUCK CONSTRUCTION PROGRAM ARE ANALYZED. 37007 302  THE STRUCK CONSTRUCTION PROGRAM ARE ANALYZED. 37008 302  THE STRUCK CONSTRUCTION PROGRAM ARE ANALYZED. 37008 302  THE STRUCK CONSTRUCTION THE STRUCK ON S 37008 302  THE STRUCK CONSTRUCTION THE	DOLITE IS USED FOR MEASUREMENTS BASED ON OBSIR	37405	504
EIR RELATIVE MOTION. IT IS STATED THAT SUCH A METHOD NAS USED IN MINITER OF 1961 ON THE LENI 37005 507 N ICCERPEAKER. MEASUREMENTS WERE PERFORMED BOT 37003 506 10 N TO A STATED MY THE SURROUNDING ICE. TRA 37005 509 NSLATION OPTIONAL. 37005 510 509 NSLATION OPTIONAL. 37005 510 510 NSLAGINOV.A. 37005 701 NAVIGATION SYSTEMS, ICERREAKERS 37005 702 37008 37006 610 37006 510 500 500 500 500 500 500 500 500 500			
METHOD WAS USED IN WINTER OF 1961 ON THE LENI 37005 507  N ICERPEAREP, MEASUREMENTS WERE PERFORMED BOT 37005 506  N ON 1HE SHIP AND ON THE SURROUNDING ICE. TRA 37005 506  NSLATION OPTIONAL: 37005 506  ICEMPRAKERS, NAVIGATION SYSTEMS - 37005 702  37006 101  NAVIGATION SYSTEMS, ICERREAKERS 37006 103  SHALAGINOV.A. 37006 101  A MCASURING TARLE FOR FOSITION DETERMINATION 37006 201  DURING NAVIGATION IN ICE.= 37006 202  MORKOJ FLOT, 23, OCT 1963, Pp. 21-24  THIS IS A DETAILTO AND ZLEMENTARY DESCRIPTION 37006 201  OF A SIMPLE MEASURING DEVICE WHICH MAY BE USED 37006 502  FOR POSITION CALCULATIONS DURING NAVIGATION I 37006 502  FOR POSITION CALCULATIONS DURING NAVIGATION I 37006 502  FOR POSITION SYSTEMS ICEBREAKERS 37006 702  37007 101  NAVIGATION SYSTEMS ICEBREAKERS 37006 702  37007 102  INAUISATION SYSTEMS ICEBREAKERS 37006 702  170 180 180 180 180 180 180 180 180 180 18			
METHOD WAS USED IN WINTER OF 1961 ON THE LENI 37005 507  N ICERPEAREP, MEASUREMENTS WERE PERFORMED BOT 37005 506  N ON 1HE SHIP AND ON THE SURROUNDING ICE. TRA 37005 506  NSLATION OPTIONAL: 37005 506  ICEMPRAKERS, NAVIGATION SYSTEMS - 37005 702  37006 101  NAVIGATION SYSTEMS, ICERREAKERS 37006 103  SHALAGINOV.A. 37006 101  A MCASURING TARLE FOR FOSITION DETERMINATION 37006 201  DURING NAVIGATION IN ICE.= 37006 202  MORKOJ FLOT, 23, OCT 1963, Pp. 21-24  THIS IS A DETAILTO AND ZLEMENTARY DESCRIPTION 37006 201  OF A SIMPLE MEASURING DEVICE WHICH MAY BE USED 37006 502  FOR POSITION CALCULATIONS DURING NAVIGATION I 37006 502  FOR POSITION CALCULATIONS DURING NAVIGATION I 37006 502  FOR POSITION SYSTEMS ICEBREAKERS 37006 702  37007 101  NAVIGATION SYSTEMS ICEBREAKERS 37006 702  37007 102  INAUISATION SYSTEMS ICEBREAKERS 37006 702  170 180 180 180 180 180 180 180 180 180 18	EIR RELATIVE MOTION. IT IS STATED THAT SUCH A	37005	506
N ICERPEAKEP. MEASUREMENTS WERE PURPOWING ICE. TRA 37005 506 NELATION OPTIONAL. 37005 506 NELATION OPTIONAL. 37005 701 ICERPEAKERS, NAVIGATION SYSTEMS 7005 702 NAVIGATION SYSTEMS, ICERPEAKERS 37005 702 37005 37006 37006 100 SHALAGINOV.A. 37006 101 SHALAGINOV.A. 37006 101 OURING NAVIGATION IN ICE.= 37006 102 MORGKOJ FLOT, 23, OCT 1963, PP. 21-24 37006 202 MORGKOJ FLOT, 23, OCT 1963, PP. 21-24 37006 202 MORGKOJ FLOT, 23, OCT 1963, PP. 21-24 37006 501 OF A SIMPLE MEASURING DEVICE WHICH MAY BE USED 37006 502 FOR POSITION CALCULATIONS DURING NAVIGATION I 37006 503 N ICE. 37007 37006 701 NAVIGATION SYSTEMS, ICEBREAKERS 37006 701 NAVIGATION SYSTEMS, ICEBREAKERS 37006 702 PLREVZENCEV.E.I. 37007 202 ON WITH FOLL INITIAL INFORMATION, WHICH IS COU 37007 202 UVALENT TO A SELF-ADJUSTING SYSTEMS 37007 202 INDIVIDED CONSTANT PUNCTION PROGRAM ARE ANALYZED. 37007 302 IT IS SHOUNT THAT A SYSTEM INTENTION STRUCK 37007 302 IT IS SHOUNT THAT A SYSTEM THE INFORMATION NAT 37007 302 IT IS SHOUNT THAT A SYSTEM THE INFORMATION NAT 37007 302 IT IS SHOUNT THAT A SYSTEM THE INFORMATION NAT 37007 302 IT IS SHOUNT THAT A SYSTEM THE INFORMATION NAT 37007 302 IT IS SHOUNT THAT A SYSTEM THE INFORMATION NAT 37007 302 IT IS SHOUNT THAT A SYSTEM THE INFORMATION NAT 37007 302 IT IS SHOUNT THAT A SYSTEM THE INFORMATION NAT 37007 302 IT IS SHOUNT THAT A SYSTEM THE INFORMATION NAT 37007 302 IT IS SHOUNT THAT A SYSTEM SHIPS 37007 302 IT IS AN EXTEMS OF NONLINEAR SYSTEMS 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008			
H. ON 1-HE SHIP AND ON THE SURROUNDING ICE. TRA   37005   500   10cm			
H. ON 1-HE SHIP AND ON THE SURROUNDING ICE. TRA   37005   500   10cm	N ICERREAKEP. MEASUREMENTS WERE PUREDRMED BOT	37005	508
NSLATION OPTIONAL, 37005 510 ICE; REAKERS, NAVIGATION SYSTEMS - 37005 701 NAVIGATION SYSTEMS, ICEBREAKERS 37005 702 37005 SYALAGIMOV, A. 37006 101 SYALAGIMOV, A. 37006 101 A MEASURING TARLE FOR FOSITION DETERMINATION 37006 101 DURING NAVIGATION IN ICE.* 37006 202 MORKKOJ FLOT, 23, OCT 1963, PP. 21-24 37006 202 MORKKOJ FLOT, 23, OCT 1963, PP. 21-24 37006 202 MORKKOJ FLOT, 23, OCT 1963, PP. 21-24 37006 202 MORKKOJ FLOT, 23, OCT 1963, PP. 21-24 37006 202 MORKKOJ FLOT, 23, OCT 1963, PP. 21-24 37006 202 MORKKOJ FLOT, 23, OCT 1963, PP. 21-24 37006 501 OF A SIMPLE MEASURING DEVICE WHICH MAY BE USED 37006 501 OF A SIMPLE MEASURING DEVICE WHICH MAY BE USED 37006 503 N ICE, ICE; HERAKERS, NAVIGATION SYSTEMS 37006 701 NAVIGATION SYSTEMS, ICEBREAKERS 37006 702 37007 37007 37007 37007 37007 37007 NAVIGATION SYSTEMS, ICEBREAKERS 37006 702 INALEMY TO A SELF-ADJUSTING SYSTEMS** 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 3			
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NAVIGATION SYSTEMS, ICEBREAKERS 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37006 37007 37006 37006 37007 37006 37006 37007 37006 37006 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 3700			
### ### ##############################	ICEBREAKERS, NAVIGATION SYSTEMS		101
### ### ##############################	NAVIGATION SYSTEMS. ICERPEAKERS	37005	702
SHALÁGIMOV.A.  A MEASURING TARLE FOR FOSITION DETERMINATION  JORDAN AND GATION IN ICE.=  DURING NAVIGATION IN ICE.=  JORDAN AND AND GATION IN ICE.=  JORDAN AND GATION IN ICE.=  JORDAN AND GATION IN ICE.=  JORDAN AND GATION OF 1963, PP. 21-24  JORDAN AND GATION JURING NAVIGATION  JORDAN AND GATION JURING NAVIGATION JORDAN  LEGEBEAKERS, NAVIGATION SURING NAVIGATION I  NAVIGATION SYSTEMS, ICEBREAKERS  JORDAN AND GATION SYSTEMS JORDAN  AN OFTIMUM SYSTEM OF AUTOMATIC SHIP NAVIGATI  AN OFTIMUM SYSTEM OF AUTOMATIC SHIP NAVIGATI  AN OFTIMUM SYSTEM OF AUTOMATICS HIP NAVIGATI  TRUBY C.N.I.I. MORSKOGO FLOTA 55, 1964, P. 28-  JORGA 22-  JORGA 24-  JO	· · · · · · · · · · · · · · · · · · ·		
A MEASURING TARLE FOR SOSITION DETERMINATION  DURING NAVIGATION IN ICE.=  MORROD FLOT, 23, OCT 1963, PP. 21-24  THIC IS A DETAILED AND ZLEMENTARY DESCRIPTION  TO A SIMPLE MEASURING DEVICE WHICH MAY BE USED  FOR POSITION CALCULATIONS DURING NAVIGATION I  NICE.  TO A SIMPLE MEASURING DEVICE WHICH MAY BE USED  FOR POSITION CALCULATIONS DURING NAVIGATION I  NICE.  TO A STOCY  PLEY-WEAKERS, NAVIGATION SYSTEMS  AND OF A SIMPLE MEASURES  TO TO TO THE WAY THE USED  TO TO TO THE WAY THE USED  AND OF THE FOR THE WAY THE USED  TO TO TO THE WAY THE USED THE WAY THE USED  TO TO THE WAY TH	37005	37006	010
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DURING NAVIGATION IN ICE.	SINEROTAN	27000	
DURING NAVIGATION IN ICE.	4 MEASURING TABLE FOR SOSITION DETERMINATION	37006	201
MOREKOJ FLOTT. 23, OCT 1963, Pp. 21-24  THIR IS A DETAILID AND ZLEMENTARY DESCRIPTION 37006 501  THIR IS A DETAILID AND ZLEMENTARY DESCRIPTION 37006 502  FOR POSITION CALCULATIONS DURING NAVIGATION 1 37006 503  NICE. 37006 504  ICEBREAKERS, NAVIGATION SYSTEMS 37006 701  NAVIGATION SYSTEMS, ICEBREAKERS 37006 702  37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 3700	DUDTEC MANIGATION IN ICE -	37006	262
THIC IS A DETAILED AND ZLEMENTARY DESCRIPTION  OF A SIMPLE MEASURING DEVICE WHICH MAY BE USED  FOR POSITION CALCULATIONS DURING NAVIGATION I  37006  501  NICE.  37006  102  NICES.  37006  103  NICES.  37006  104  NAVIGATION SYSTEMS, ICEBREAKERS  37006  37007  DREVEZENCEVEEL.  AN OPTIMUM SYSTEM OF AUTOMATIC SHIP NAVIGATI  ON WITH FULL INITIAL INFORMATION, WHICH IS COU  ON WITH FULL INITIAL INFORMATION, WHICH IS COU  IVALENT TO A SELF-ADJUSTING SYSTEMS?  37007  202  104  104  105  106  107  107  107  107  107  107  107			-
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OF A SIMPLE MEASURING DEVICE WHICH MAY BE USED FOR POSITION CALCULATIONS DURING NAVIGATION I NICE. 37006 10CEBREAKERS, NAVIGATION SYSTEMS 37006 701 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37	THIS IS A DETAIL TO ANY SLEMENTARY DESCRIPTION	37006	501
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PLREVEZENCEV.E.I.  AN OFTIMUM SYSTEM OF AUTOMATIC SHIP NAVIGATI ON WITH FULL INITIAL INFORMATION, WHICH IS COU TAULENT TO A SELF-ADJUSTING SYSTEM.  TRUDY C.N.I.I. MORSKOGO FLOTA 55, 1964, P. 28—  TOMATIC REGULATION SYSTEM WITH RIGID STRUCTURE AND CONSTANT FUNCTION PROGRAM ARE ANALYZED.  TI IS SHOWN THAT A SYSIEM OF THIS TYPE, WHICH TOMATIC REGULATED, HAS COULVALENT PROPENTICS TO A RELEFADJUSTING SYSTEM. THE INFORMATION NAT TOWN STRUCTURE STRUCTURE TOWN ANALYZED, HAS COULVALENT PROPENTICS TO TOWN AVIGATION SYSTEMS IS DISCUSSED.  STOUT TOWN SHIPS, NAVIGATION SYSTEMS IS DISCUSSED.  STOUT TOWN SYSTEMS, SHIPS TOWN TOWN SYSTEMS, SHIPS TOWN TOWN TOWN SYSTEMS, SHIPS TOWN TOWN TOWN TOWN SYSTEMS, SHIPS TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	37007	37-07	
AN OFTIRUM SYSTEM OF AUTOMATIC SHIP NAVIGATI ON WITH FULL INITIAL INFORMATION, WHICH IS TOU ON WITH FULL INITIAL INFORMATION, WHICH IS TOU IVALENT TO A SELF-ADJUSTING SYSTEM.= 37007 202 IREDOY C.N.I.I. MORSKOGO FLOTA 55, 1964, P. 28— 37007 222 THE INVARIANT PROPERTIES OF A COMMINED SHIP AU 37007 302 AND CONSTANT FUNCTION PROGRAM ARE ANALYZED. 37007 303 IT IS SHOWN THAT A SYSTEM OF THIS TYPE, WHICH 37007 304 CAN HE REGULATED, HAS COULVALENT PROPERTIES TO 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37007 37008 37008 37008 PEREVEZENCEV, E.N. 37008 201 THIS IS AN EXTENSIVE AND DETAILED ARTICLE ON S 37008 37008 202 THIS IS AN EXTENSIVE AND DETAILED ARTICLE ON S 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 370			
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INALENT TO A SELF-ADJUSTING SYSTEM.=  IRUDY C.N.I.I. MORSKOGO FLOTA 55. 1964, P. 28—  37607  22  THE INVARIANT PROPERTIES OF A COMMINED SHIP AU  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37007  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  3700	TALL THE CASE TALL TALL TALL TO BE TO TAKE TO SEE THE TALL THE TAL		
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SYSTEMS, SHIPS  37008  PEREVEZENCEV, E.N.  COME STAULLITY CONDITIONS OF A NONLINEAR SYS  TEM OF AUTOMATIC SHIP NAVIGATION.=  TRUDY C.N.I.I. MORSKOGO FLOTA 55, 1964, P. 33-  THIS IS AN EXTENSIVE AND DETAILED ARTICLE ON S  TABILITY PROBLEMS OF NONLINEAR SYSTEMS OF AUTO  MATIC SHIP NAVIGATION. THE STABILITY CONDITIO  NS OF A SYSTEM, WHICH CAN BE REGULATED, WERE U 37008  DERIVED UNDER THE ASSUMPTION OF A NONLINEAR RUD  OF A. M. LJAPUNOV AT CONSTANT EXCITATIONS AND 37008  DER DRIVE. THIS WAS DONE BY THE DIRECT METHOD 37008  THE STABILITY CONDITIONS AND 37008  THE STABILITY CONDITIONS AND 37008  THE STABILITY CONDITIONS WERE 37008  THE STABILITY CONDITIONS WERE 37008  THE SYSTEMS  THE SYSTEMS  TO STORY  TO STAD THE SYSTEM UNDER VARIOUS WORKING REGI 37008  THE STAD THE SYSTEMS TO STAD TO STAD STAD STAD STAD STAD STAD STAD STAD	SHIPS. SYSTEMS	37007	700
PEREVEZENCEV, E.N.  COME STABILITY CONDITIONS OF A NONLINEAR SYS  TEM OF AUTOMATIC SHIP NAVIGATION.=  TRUDY C.N.I.I. MORSKOGO FLOTA 55, 1964, P. 33—  THIC IS AN EXTENSIVE AND DETAILED ARTICLE ON S  TABILITY PROBLEMS OF NONLINEAR SYSTEMS OF AUTO  MATIC SHIP NAVIGATION. THE STABILITY CONDITIO  NS OF A SYSTEM, WHICH CAN BE REGULATED, WERE D  ERIVED UNDER THE ASSUMPTION OF A NONLINEAR RUD  DER DRIVE. THIS WAS DONE BY THE DIRECT METHOD  OF A. M. LJAPUNOV AT CONSTANT EXCITATIONS AND  ALCO BY MEANS OF THE METHOD OF STATISTICAL LI  NEARIZATION WHEN RANDOM EXCITATION FACTORS WER  E PRESENT. THE STABILITY CONDITIONS WERE OFTA  INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI  SHIPS, NAVIGATION SYSTEMS  NAVIGATION SYSTEMS, SHIPS  SHIPS, SYSTEMS			
PEREVEZENCEV, E.N.  SOME STABILITY CONDITIONS OF A NONLINEAR SYS  TEM OF AUTOMATIC SHIP NAVIGATION.=  TRUDY C.N.I.I. MORSKOGO FLOTA 55, 1964, P. 33-  THIS IS AN EXTENSIVE AND DETAILED ARTICLE ON S  TABILITY PROBLEMS OF NONLINEAR SYSTEMS OF AUTO  MATIC SHIP NAVIGATION. THE STABILITY CONDITIO  NS OF A SYSTEM, WHICH CAN BE REGULATED, WERE D  ERIVED UNDER THE ASSUMPTION OF A NONLINEAR RUD  OF A. M. LUAPUNOV AT CONSTANT EXCITATIONS AND  ALSO BY MEANS OF THE METHOD OF STATISTICAL LI  NEARIZATION WHEN RANDOM EXCITATION FACTORS WER  PRESENT. THE STABILITY CONDITIONS WERE D  IND FOR THE SYSTEM UNDER VARIOUS WORKING REGI  MES.  SHIPS, NAVIGATION SYSTEMS, SHIPS  SHIPS, SYSTEMS			
PEREVEZENCEV, E. N. 37008 101 <pre> <pre> <pre> <pre></pre></pre></pre></pre>	37008	37008	" 010
TEM OF AUTOMATIC SHIP NAVIGATION.=  TRUDY C.N.I.I. MORSKOGO FLOTA 55, 1964, P. 33-  THIS IS AN EXTENSIVE AND DETAILED ARTICLE ON S  TABILITY PROBLEMS OF NONLINEAR SYSTEMS OF AUTO  MATIC SHIP NAVIGATION. THE STABILITY CONDITIO  NS OF A SYSTEM, WHICH CAN BE REGULATED, WERE D  ERIVED UNDER THE ASSUMPTION OF A NONLINEAR RUD  DER DRIVE. THIS WAS DONE BY THE DIRECT METHOD  OF A. M. LJAPUNOV AT CONSTANT EXCITATIONS AND  ALSO BY MEANS OF THE METHOD OF STATISTICAL LI  NEARIZATION WHEN RANDOM EXCITATION FACTORS WER  E PRESENT. THE STABILITY CONDITIONS WERE DATA  INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI  SHIPS, NAVIGATION SYSTEMS  NAVIGATION SYSTEMS  STOOB  TOS  SHIPS, SYSTEMS			
TEM OF AUTOMATIC SHIP NAVIGATION.=  TRUDY C.N.I.I. MORSKOGO FLOTA 55, 1964, P. 33-  51  THIR IS AN EXTENSIVE AND DETAILED ARTICLE ON S  TABILITY PROBLEMS OF NONLINEAR SYSTEMS OF AUTO  MATIC SHIP NAVIGATION. THE STABILITY CONDITIO  NS OF A SYSTEM, WHICH CAN BE REGULATED, WERE U  ERIVED UNDER THE ASSUMPTION OF A NONLINEAR RUD  DER DRIVE. THIS WAS DONE BY THE DIRECT METHOD  OF A. M. LUAPUNOV AT CONSTANT EXCITATIONS AND  ALSO BY MEANS OF THE METHOD OF STATISTICAL LI  NEARIZATION WHEN RANDOM EXCITATION FACTORS WER  E PRESENT. THE STABILITY CONDITIONS WERE OUTA  INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI  MES.  SHIPS, NAVIGATION SYSTEMS, SHIPS  SHIPS, SYSTEMS			
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TRUDY C.N.I.I. MORSKOGO FLOTA 55, 1964, P. 33-  51  THIR IS AN EXTENSIVE AND DETAILED ARTICLE ON S  TABILITY PROBLEMS OF NONLINEAR SYSTEMS OF AUTO  MATIC SHIP NAVIGATION. THE STABILITY CONDITIO  NS OF A SYSTEM, WHICH CAN BE REGULATED, WERE U  ERIVED UNDER THE ASSUMPTION OF A NONLINEAR RUD  DER DRIVE. THIS WAS DONE BY THE DIRECT METHOD  OF A. M. LJAPUNOV AT CONSTANT EXCITATIONS AND  ALGO BY MEANS OF THE METHOD OF STATISTICAL LI  NEARIZATION WHEN RANDOM EXCITATION FACTORS WER  E PRESENT. THE STABILITY CONDITIONS WERE OUTA  INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI  MES.  SHIPS, NAVIGATION SYSTEMS  NAVIGATION SYSTEMS, SHIPS  SHIPS, SYSTEMS  37008  512  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008  57008		27	
THIS IS AN EXTENSIVE AND DETAILED ARTICLE ON S TABILITY PROBLEMS OF NONLINEAR SYSTEMS OF AUTO MATIC SHIP NAVIGATION. THE STABILITY CONDITIO  NS OF A SYSTEM, WHICH CAN BE REGULATED, WERE D ERIVED UNDER THE ASSUMPTION OF A NONLINEAR RUD  DER DRIVE. THIS WAS DONE BY THE DIRECT METHOD  OF A. M. LJAPUNOV AT CONSTANT EXCITATIONS AND ALSO BY MEANS OF THE METHOD OF STATISTICAL LI NEARIZATION WHEN RANDOM EXCITATION FACTORS WER E PRESENT. THE STABILITY CONDITIONS WERE OBTA INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI  MES. SHIPS, NAVIGATION SYSTEMS NAVIGATION SYSTEMS, SHIPS SHIPS, SYSTEMS 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008			
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THIS IS AN EXTENSIVE AND DETAILED ARTICLE ON S TABILITY PROBLEMS OF NONLINEAR SYSTEMS OF AUTO MATIC SHIP NAVIGATION. THE STABILITY CONDITIO  NS OF A SYSTEM, WHICH CAN BE REGULATED, WERE D ERIVED UNDER THE ASSUMPTION OF A NONLINEAR RUD DER DRIVE. THIS WAS DONE BY THE DIRECT METHOD  OF A. M. LJAPUNOV AT CONSTANT EXCITATIONS AND ALSO BY MEANS OF THE METHOD OF STATISTICAL LI NEARIZATION WHEN RANDOM EXCITATION FACTORS WER PRESENT. THE STABILITY CONDITIONS WERE OBTA INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI MES. SHIPS, NAVIGATION SYSTEMS NAVIGATION SYSTEMS, SHIPS SHIPS, SYSTEMS 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008			
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MATIC SHIP NAVIGATION. THE STABILITY CONDITIO  NS OF A SYSTEM, WHICH CAN BE REGULATED, WERE D  ERIVED UNDER THE ASSUMPTION OF A NONLINEAR RUD  DER DRIVE. THIS WAS DONE BY THE DIRECT METHOD  OF A. M. LJAPUNOV AT CONSTANT EXCITATIONS AND  ALSO BY MEANS OF THE METHOD OF STATISTICAL LI  NEARIZATION WHEN RANDOM EXCITATION FACTORS WER  E PRESENT. THE STABILITY CONDITIONS WERE OUTA  INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI  MES.  SHIPS, NAVIGATION SYSTEMS  NAVIGATION SYSTEMS, SHIPS  SHIPS, SYSTEMS  37008  702  37008  703  703  703  703  703		27609	ことと
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ERIVED UNDER THE ASSUMPTION OF A NONLINEAR RUD  DER DRIVE. THIS WAS DONE BY THE DIRECT METHOD  OF A. M. LJAPUNOV AT CONSTANT EXCITATIONS AND  ALSO BY MEANS OF THE METHOD OF STATISTICAL LI  NEARIZATION WHEN RANDOM EXCITATION FACTORS WER  E PRESENT. THE STABILITY CONDITIONS WERE OCTA  INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI  MES.  SHIPS, NAVIGATION SYSTEMS  NAVIGATION SYSTEMS, SHIPS  SHIPS, SYSTEMS  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008  37008		27062	
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OF A. M. LJAPUNOV AT CONSTANT EXCITATIONS AND ALSO BY MEANS OF THE METHOD OF STATISTICAL LI NEARIZATION WHEN RANDOM EXCITATION FACTORS WER E PRESENT. THE STABILITY CONDITIONS WERE OUTA INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI MER. SHIPS, NAVIGATION SYSTEMS NAVIGATION SYSTEMS, SHIPS SHIPS, SYSTEMS 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008 37008	· · · ·	27009	504
ALSO BY MEANS OF THE METHOD OF STATISTICAL LI 37006 508 NEARIZATION WHEN RANDOM EXCITATION FACTORS WER 37008 509 E PRESENT. THE STABILITY CONDITIONS WERE OUTA 37008 510 MES. 37008 512 511 MES. 37008 512 511 MES. 37008 512 511 511 511 511 511 511 511 511 511			
ALRO BY MEANS OF THE METHOD OF STATISTICAL LI 37006 508 NEARIZATION WHEN RANDOM EXCITATION FACTORS WER 37008 509 E PRESENT. THE STABILITY CONDITIONS WERE OUTA 37008 510 MER. 37008 512 512 513 514 515 515 515 515 515 515 515 515 515	OF A. M. LJAPUNOV AT CONSTANT EXCITATIONS AND	37068	507
NEARIZATION WHEN RANDOM EXCITATION FACTORS WER 37008 509 E PRESENT. THE STABILITY CONDITIONS WERE OUTA 37008 510 INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI 37008 512 MER. 37008 512 MER. 37008 702 SHIPS, NAVIGATION SYSTEMS, SHIPS 37008 702 SHIPS, SYSTEMS 37008 703		* 2700A	
E PRESENT. THE STABILITY CONDITIONS WERE OUTA 37008 510 INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI 37008 511 MER. 37008 512 511 511 511 511 511 511 511 511 511			
E PRESENT. THE STABILITY CONDITIONS WERE OUTA 37008 510 INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI 37008 511 MER. 37008 512 511 511 511 511 511 511 511 511 511	NEARIZATION WHEN RANDOM EXCITATION FACTORS WER	<b>37008</b>	
INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI 37008 511 MER. 37008 512 51195, NAVIGATION SYSTEMS 37008 702 51195, SYSTEMS 37008 702 51195, SYSTEMS 37008 702 703		<b>37</b> 008	
MER. SHIPS, NAVIGATION SYSTEMS NAVIGATION SYSTEMS, SHIPS SHIPS, SYSTEMS 37008 702 SHIPS, SYSTEMS 37008 702 703			2.0
MER. SHIPS, NAVIGATION SYSTEMS NAVIGATION SYSTEMS, SHIPS SHIPS, SYSTEMS 37008 702 SHIPS, SYSTEMS 37008 702 703	INED FOR THE SYSTEM UNDER VARIOUS WORKING REGI	370∪8	
SHIPS, NAVIGATION SYSTEMS . 37008 . 702 NAVIGATION SYSTEMS, SHIPS . 37008 . 702 SHIPS, SYSTEMS . 37008 . 702			
NAVIGATION SYSTEMS, SHIPS 702 SHIPS, SYSTEMS 37008 702			
NAVIGATION SYSTEMS, SHIPS 2 37008 702 SHIPS, SYSTEMS 37008 702	SHIPS, NAVIGATION SYSTEMS	. 37008	
SHIPS, SYSTEMS 57008 703			
		, 51000	
	SHIPS, SYSTEMS		
CTIME ICHTED MINER	· · · · · · · · · · · · · · · · · · ·	3700A	704
	STATEMEN STATES	3,000	• • •

•

27020		
37009	37009	010
TETJUJEV. d. A.	37609	101
EXPERIMENTAL RESULTS ONTAINED DURING INVESTI	37009	201
GATION OF THE SYSTEM OF AUTOMATIC NAVIGATION O	37009	202
N STEAMER INZHENER A. PUSTOSHKIN.=	37009	203
TRUDY C.N.I.I. MORSKOGO FLOTA 55, 1964, P. 52-	37009	251
63	37009	252
THIS IS A DETAILED ARTICLE ON THE TITLE TOPIC.	37009	501
A MCTHOD IS DESCRIBED TO DERIVE THE DRIVING	373 <b>3</b> 9	502
FUNCTION OF THE SHIP (AND ITS PARAMETERS) FROM	37669	502 503
EXPERIMENTALLY MEASURED INVERSE AMPLITUDE-PHA		
SE CHARACTERISTICS. IT IS SHOWN THAT THE DRIV	37009 37000	504 ∷ 3 ∴
	37009	ذ0 ڌ
INS FUNCTION DEPENDS STRONGLY ON LUAD AND SHEE	<b>37</b> ししゅ	ن ز ر
TO OF THE SHIP. OPERAGE FOR ORMANGE COMPITIONS	27001	
OF THE AUTO NAVIGATION SYSTEM ARE CONSIDERED.	370 CG	ي رُّ دُ
Smids, Navigation Systems	27009	75.2
ENTIGATION SYSTEMS. SHIPS	27069	7.4
56.PS. 5YSTEMS	3,000	4.4
SYRT MS. SHIPS	シャン・	
37010	37010	011
MELKOV, P. I.	37010	101
RUBLEY, P. A.		
·	37010	102
APPLICATION INFRARED DEVICES IN ICE RECONNAT SSANCE. (IN PRIMENENIE RADIOPIZICHESKIKH METO	<u>37010</u>	201
<u> </u>	37010	202
DOV, P. 95-108).= ARKT. I ANTARKT. N. I. INSTITUT, LENINGRAD 196	<u>37010</u>	203
	37010	251
MUTC TO A DEMATTED ADMITCLE ON USE OF THEREDOR	<u> 37010</u>	252
THIS IS A DETAILED ARTICLE ON USE OF INPRARED	. 37010	501
BEAM DEVICES FOR AIR RECONNAISSANCE OF ICE CON	37010	502
DITIONS. THE DEVICES MEASURE THE AMOUNT OF HE	37010	503
AT RADIATION BY VARIOUS OBJECTS AND HAVE A GOO	· 37010	504
D ACCURACY FOR THE ICE OBSERVATION PURPOSES.	37010	505
ICE CONDITIONS, PORECAST	37010	701
MEASUREMENT EQUIPMENT	37010	702
EQUIPMENT, MEASUREMENT	37010	703
37011	37011	011
RICHTER, J.	37011	101
ON COURSE REGULATION OF SHIPS. =	37011	201
JAHRBUCH DER SCHIPFBAUTECHN. GESSELSCHAFT, 54,	37011	251
1960, P.175-194	37011	252
THIS IS AN EXTENSIVE AND DETAILED THEORETICAL	37011	501_
ARTICLE ON THE TITLE TOPIC. THE TIME RESPONSE	37011	502
OF THE SHIP TO THE INSTANTANEOUS MOTION OF TH	37011	503_
E RUDDER IS INVESTIGATED UNDER VARIOUS CONDITI	37011	504
ONS.	37011	505
SHIPS, NAVIGATION	37011	701
NAVIGATION, SHIPS	37011	702
SHIPS, RUDDERS	37011	703
•	37011	704_
RUDDERS, SHIPS	37011	705
SHIPS MOTION	37011	706
MOTION, SHIP-	37011	700

55001	55001	01
DOROKHOV, A.	55001	10
LINE ICERREAKER LENINGRAD.=	55001	20
MORSKOJ FLOT, 22, OCT 1962, PP. 30-32	55001	25
THIS IS THE SECOND ICEBREAKER OF THE MOSKVA CL	55001	50
ASS, BUILT AT WARTSILA INC. IN FINLAND. THE AR	55001	50
TICLE DESCRIBES IN DETAIL ALL IMPORTANT TECHNI	55001	50.
CAL DATA EXCEPT FOR MATERIALS WHICH WERE USED.	55001	50
TOTAL DISPLACEMENT OF THE ICEBREAKER IS 13,290	55001	50
TONS, MACHINERY OUTPUT 26,000 H.P. IT SATISFIE	55001	50
S THE SPECIFICATIONS OF CLASS 100 AL OF THE LL	55001	50
OYD REGISTER OF SHIPPING AND PERTAINING SOVIET	55001	50
SPECIFICATIONS. IT IS ASSIGNED TO THE NORTHE	55001	501
RN POLAR SEA WAY. TRANSLATION RECOMMENDED.	53001	51(
MOSKVA CLASS	55001	70
ICEBREAKER LENINGRAD	55001	70:

ı

FLWI/G640 ICERGEVKEB	55001	703
ICEHREAKERS, DESIGN	55001	704
DEGION: ICEHREAKERS	55001	705
ICEBREAKIRS, POLAR		
	55001	706
POLAR ICEBREAKERS	55001	707
55002	55002	016
LAND TMAN , CH .	55062	101
TECHNICAL VIEWPOINTS ABOUT MODERN LARGE ICEB	55002	201
REAKERS.=	55002	202
JAHRRUCH DER SCHIFFBAUTECHNISCHEN GESELLSCHAFT		
	55002	251
, 55, 1961, PP. 142-174	55002	252
THIS IS A VERY USEFUL AND EXTENSIVE REVIEW OF	55062	501
VARIOUS ASPECTS OF ICEBREAKER DESIGN, BOTH GEN	55002	502
ERAL CONSIDERATIONS AND IMPORTANT DETAILS ARE	55002	503
INCLUDED. SPECIAL ATTENTION IS GIVEN TO SHIPS	55002	504
BUILT IN FINLAND.	55002	505
THREE TYPES OF ICEBREAKERS ARE CONSIDERED HAR	55002	506
BOR, BALTIC SEA AND POLAR ICEBREAKERS RESPECTI	55002	507
VELY. THE FIRST TYPE IS MENTIONED OALY BRIEFLY	55002	508
<ul> <li>THE REMAINING TWO TYPES ARE DISTINGUISHED BY</li> </ul>	55002	509
SIZE, MACHINERY OUTPUT, ETC. BUT MAINLY BY TH	55002	510
E FACT THAT THE SEA TYPE HAS BOTH FORWARD AND	55002	511
AFT PROPELLERS WHILE THE POLAR TYPE HAS ONLY T		
The state of the s	55002	512
HE AFT ONES.	55002	513
ICEbreakers, Design	55002	701
DESIGN, ICEBREAKERS	55002	702
ICEBREAKERS, POLAR	55002	703
POLAR ICEBREAKERS	55002	704
ICEBREAKERS, SEA	55002	705
SEA ICEBREAKERS	· -	-
	55002	706
MOSVA CLASS	55002	707
55003	55003	010
FARENGOLC, I.V.	55003	101
RESEARCH ICEBREAKER FUDJI.=	55003	201
SUDOSTROENIE, 38, AUG 1966, PP. 16-17	55003	251
A BRIEF DESCRIPTION OF A NEW SHIP WHICH SHALL		501
JOIN THE JAPANESE ANTARCTIC EXPEDITION.	55003	502
THE HULL STRUCTURE HAS DOUBLE SIDES, AND STEEL		. •
	55003	503
WITH HIGHER YIELD STRENGTH IS USED AT WATERLI	55003	504
NE. THE USUAL RATIO OF LENGTH (100 M) TO WIDT	55003	505
H (22 M) IS MAINTAINED, BUT THE HULL IS EGGSHA	55003	506
PED FOR IMPROVED RESISTANCE AGAINST ICE PRESSU	55003	507
RE. THE ICE KNIFE CONTAINS 30 DEGREES WITH A	55003	508
HORIZONTAL LINE. THREE HEELING TANKS (123, 75	55003	509
AND 94 TONS) ARE FURNISHED BY TWO PUMPS PER 4	55003	510
500 TONS PER HOUR. TWO TRIMMING TANKS (199 AN		
	55003	511
D 177 TONS) WITH A PUMP 1,200 TONS PER HOUR.	55003	512
THREE DAMPING TANKS (142, 29 AND 66 TONS) ARE	55003	513
PROVIDED ALSO. THE MAIN PROPULSION UNIT CONSI	55003	514
STS OF FOUR 3,600 H.P. DIESEL-ELECTRIC GENERAT	55003	515
ORS. THE TOTAL OUTPUT IS 12,000 H.P. THE CRE	55003	516
W CONSISTS OF 182 AND OF 40 SCIENTISTS. THE S	55003	517
TERN CONTAINS A HELIPORT WITH 4 TONS OF CAPACI	55003	518
TY AND A DECK HANGAR. TRAVEL DISTANCE AT ECON	55003	519
OMY SPEED15,000 MILES.	55003	52C
ICEBREAKER FUDJI	55003	701
FUDJI ICEBREAKER	55003	702
ICEBREAKERS, DESIGN	55003	703
DESIGN. ICEBREAKERS	55003	704
55004	55004	010

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TIEDEMANN.J.	55004	101
ICEAREAKER KARHU.=	£ 500++	201
SCHIFF UND HAFEN, 10, NOV 1958, PP. 2-12	55554	251
THE ICEBREAKER KARHU IS DESCRIBED IN A BROADER	55004	501
CONNECTION WITH THE DEVELOPMENT OF ICE. REAKER	55004	502
PRODUCTION IN FINLAND. PAST AND PRESENT HIST	55004	503
ORY AND DESCRIPTION OF TEN ICEBREAKERS USED IN	55004	504
FINLAND FROM 1890 TILL 1959 IS GIVEN. THE FO	55004	5 C 5
UR MOST RECENT MODELS WERE BUILT IN FINLAND IN	55054	506
1939, 1953, 1958 (KARHU) AND IN 1959 (MŪRTAJA	55004	507
). THE LAST TWO ARE IDENTICAL. HOWEVER, ALMO	55004	30 <i>8</i>
ST 40 ICEBREAKERS UP TO 22,000 H.P. (THE MOSKV	55004	509
A CLASS) WERE BUILT BY SANDVIKENS SKEPPSDOCKA	55004	510
IN HELSINGFORS. FINLAND FROM 1938 TO 1960.	55004	511
THE KARHU AND MURTAJA ICEHREAKERS ARE DRIVEN B	55004	512
Y 2 FORWARD AND 2 AFT PROPELLERS, PROPORTION O	55004	513
F POWER IS APPROXIMATELY 3.1 AND MAY BE REVERS	55004	514
ED. TOTAL OUTPUT OF THE FOUR DIESEL-ELECTRIC	55004	515
UNITS IS 7,500 H.P. THE PROPULSION FACILITY I	55004	516
S DESCRIBED IN DETAIL. THE SAME IS TRUE FOR D	55004	517
ESCRIPTION OF OTHER MECHANICAL EQUIPMENT, CONT	55004	518
		516
ROLS AND FURNISHINGS. GINERAL DATA AND DRAWIN	55004	
GS ARE SHOWN AND DISCUSSED AT LENGTH.	55004	520
THE HULL STRUCTURE CONSISTS OF TEN COMPARTMENT	55004	521
S AND IS DESCRIBED ONLY SHORTLY. IT SATISFIES	55004	522
THE CLASS +100 A 1 ICERREAKER SPECIFICATIONS	55004	523
OF THE LLOYDS REGISTER AND ALSO THE HIGHEST FI	55004	524
NNISH ICE CLASS IA. IT IS ALMOST COMPLETELY W	55004	525
ELDED. MAXIMUM PLATE THICKNESS 1.2 IN. NO MAT	55004	526
ERIAL OR WELDING PROCEDURE DATA IS GIVEN.	55004	527
ICEBREAKER KARHU	55004	701
KARHU ICEBREAKER	55064	702
ICEbREAKERS, FINLAND	55004	703
FINLAND ICEHREAKERS	55004	704
ICEBREAKERS, HISTORY	55004	705
HISTORY, ICEBREAKERS	55004	706
ICEBREAKERS, CONSTRUCTION	55004	707
CONSTRUCTION, ICEBREAKERS	55004	708
55005	55005	010
ANONYMOUS	55005	101
DANBJORN ICEBREAKER WITH NEW B + W VEE-TYPE	55005	201
ENGINES.=	55005	202
SHIPPING WORLD AND SHIPBUILDER, 7, OCT 1965, P	55005	251
P. 72-76	55005	252
DESCRIPTION OF THE DANBJORN ICEBRÉAKER IS GIVE	55005	501
N. TOTAL MACHINERY OUTPUT AMOUNTS TO 10,500 S	55005	502
		503
.H.P. DISPLACEMENT IS 3,685 TONS, SPEED IN OP	55005 55005	-
EN WATER IS 18 KNOTS. MORE DATA IS GIVEN.	55005	504
ACCORDING TO NORWEGIAN VERITAS, THE ICEBREAKER	55005	505
S IS CONSTRUCTED AS A ONE COMPARTMENT SHIP, TH	55005	506
E STEEL STRUCTURE IS FULLY WELDED, PLATE THICK	55005	507
NESSES UP TP 1.25 IN. WERE USED. THERE ARE TW	55005	508
O FORWARD AND TWO AFT PROPELLERS POWERED BY A	55005	509
DIESEL-ELECTRIC UNIT. THIS CONSISTS OF SIX V-	55005	510
12 CYLINDER ENGINES WITH 1,370 K.W. GENERATORS	55005	511
. FOUR OF THESE DRIVE THE AFT PROPELLERS AND	55005	512
TWO THE FORWARD ONES. HEELING PUMPS, REMOTE CO	55005	513
NTROL OF MACHINERY AND AUTOMATIC RECORDING INS	55005	514
TRUMENTS ARE BRIEFLY MENTIONED.	55005	515
ICEBREAKER DUNBJORN	55005	701

e significant and the second of the second o

	**	
		***
8		702
DUNEJORN ICEBRIAKIR	55005 55005	702 ii 703 ii
ICHEREAKIRS: PROPULSION PROPULSION: ICEBREAKERS	55005 55005	703 8
ICEBFFAKERS: ENGINES	55005 55005	704 看 705 選
ENGINES, ICEBREAKERS	55005 55005	706
55006	55665	010
NEGANOV • V • I •	55006	101,
GNES IN . V . JA .	55006	102
NUCLEAR ICEBRIAKER LENIN IN THE ARCTIC.=	F 5 0 0 6	201
SUDOSTRUENIC, 27, AUG 1961, PP. 2-7	55006	251 \$
THIS ARTICLE HAS APPLACED IN A SPECIAL NUMBER	55006	501
OF SUDOSTROENIE WHICH REFERS TO ICEBREAKER LEN	55006	502
I'' ONLY.	55006	503 <sup>°</sup>
IT DESCRIBES BASIC FEATURES AND SOME TECHNICAL	55036	504
DATA OF THE ICEBREAKER WITHOUT MUCH DETAIL. T	55006	505,
HE EXPERIENCE OF THE FIRST ARCTIC NAVIGATION I	55006	506
S MENTIONED, AND MANY GLORIFYING COMMENTS ARE	55006	5C7
INCLUDED. TRANSLATION OPTIONAL.	55006	508 4
ICEBREAKER LENIN	55006	701;
LENIN ICEBREAKER	55006	702
ICEBREAKERS, OPERATION	55006	703,
OPERATION, ICEBREAKERS	55006	704
55007	55067	010
STEPANOVICH, A.N.	55007	101
FIRST ARCTIC NAVIGATION OF THE ICEBREAKER LE	55007 55007	201
NIN.=	55067 55067	202
SUDOSTROENIE, 27, AUG 1961, PP. 8-10 THIS ARTICLE HAS APPEARED IN A SPECIAL NUMBER	5500 <b>7</b> 5500 <b>7</b>	251 501
OF SUDOSTROENIE WHICH REFERS TO ICEBREAKER LEN	55007	502
IN ONLY.	55007	503
IT DESCRIBES THE EXPERIENCE OF THE FIRST NAVIG	55007	504
ATION OF THE ICEBREAKER IN ARCTIC IN WINTER 19	55007	505
60-61. FIRST, THE GENERAL ICU SITUATION IS RE	55007	506
VIEWED. SUBSEQUENTLY, THE WORK OF POWER FACIL	55007	507
ITY, SHIP SYSTEMS, AND OF ELECTRIC EQUIPMENT I	55007	508
S EVALUATED. PROTECTION AGAINST RADIATION IS	55007	509
ALSO MENTIONED. THE ARTICLE CONTAINS RATHER G	55007	510
ENERAL, SOMETIMES GLORIFYING COMMENTS. TRANSL	55007	511
ATION OPTIONAL.	55007	512
ICE DREAKER LENIN	550C <b>7</b>	701
LENIN ICEBREAKER	55007	702
ICEBREAKERS, OPERATION	55007	703 .
OPERATION, ICEBREAKERS	55007	704
ICEBREAKERS, SYSTEMS	55007	705
SYSTEM. ICEBREAKERS	55007	706
55008	55008	010
BURNAZJAN,A.I.	55008	101
GORDINSKIJ, S.M.	55008	102
KAMYSHENKO, I.D.	55008 55008	103 104
NEFEDOV,JU.G. PRAYECKIJ,V.N.	55008	104
PROTECTION AGAINST RADIATION ON THE NUCLEAR	55008	201
ICEBREAKER LENIN.=	55008	2023
SUDOSTROENIE, 27, AUG 1961, PP. 11-14	55008	251
THIS ARTICLE HAS APPEARED IN A SPECIAL NUMBER	55008	501 ·
OF SUDOSTROENIE WHICH REFERS TO ICEBREAKER LEN	55008	502 §
IN ONLY.	55008	503
IT DEALS IN DETAIL WITH VARIOUS SAFETY ASPECTS	55008	5043
AND RADIATION PROBLEMS CONNECTED WITH THE NUC	55008	505
LEAR PROPULSION OF THE LENIN. IT IS CONCLUDED	55008	506

FROM NUMEROUS MEASUREMENTS PERFORMED THAT THE	55008	507
RE IS NO RADIATION DANGER EITHER FOR THE CREW	ย์รับดูล	50a
OR IN THE ADJACENT WATER.	55608	509
TRANSLATION AVAILABLE OTS 62-11-111, JPRS12183	55468	510
• 29 JAN 1962.	55008	511
ICEBREAKER LENIN	55008	701
LENIN ICEBREAKER	55008	702
ICEBREAKERS - RADIATION CONTROL	5500a	703
RADIATION CONTROL, ICEBREAKERS	55008	704
55009	55009	010
ARNOLD.O.A.	55009	101
ARCHITECTONIC DESIGN OF INTERIORS ON THE NUC	55009	201
LEAR ICEBREAKER LENIN.=	55009	202
SUDOSTROENIE, 27, AUG 1961, PP. 14-18	55009	251
THIS ARTICLE HAS APPEARED IN A SPECIAL NUMBER	55C09	501
OF SUDOSTROENIE WHICH REFERS TO ICEBREAKER LEN	55009	502
IN ONLY.	55009	503
IT DESCRIBES IN DETAIL THE DESIGN OF CABINS. D	55009	504
INING ROOM, CLUB, MUSICAL ROOM AND OF OTHER SO	55009	505
CIAL FACILITIES OF THE ICEBREAKER. MATERIALS.	55009	506
COLURS AND VARIOUS DETAILS OF CONSTRUCTION AR	55009	507
E GIVEN. LOCATION OF ALL DESCRIBED ROOMS IS S	55009	508
HOWN ON SKETCHES AND SOME PHOTOGRAPHS OF INTER	55009	509
IORS ARE INCLUDED. SPECIAL ATTENTION IS GIVEN	55009	510
TO PROBLEMS ASSOCIATED WITH LONG NAVIGATION P	55009	-511
ERIODS. TRANSLATION OPTIONAL.	55009	512
ICEBREAKER LENIN	55009	701
LENIN ICEBREAKER	55009	702
ICEBREAKERS, DESIGN	55009	703
DE <ign. icebreakers<="" td=""><td>55009</td><td>704</td></ign.>	55009	704
55010	55010	010
AGAFUNOV.N.A.	55010	101
ELECTRIC POWER EQUIPMENT OF THE ICEBREAKER L	55010	201
ENIN•=	55010	202
SUDOSTROENIE, 27, AUG 1961, PP. 30-33	55010	251
THIS ARTICLES HAS APPEARED IN A SPECIAL NUMBER	55010	501
SUDOSTROENIE WHICH REFERS TO ICEBREAKER LENIN	55010	502
ONLY.	55010	503
IT DESCRIBES IN DETAIL AUXILIARY POWER EQUIPME	55010	50+
NT OF THE LENIN. THE PROPULSION-EQUIPMENT HAS	55010	505
BEEN DESCRIBED EARLIER BY THE SAME AUTHOR. F	55010	506
IRST, INDIVIDUAL APPLIANCES AND THEIR ENERGY C	55010	507
ONSUMPTION IS GIVEN. THE TOTAL AMOUNTS TO 10.	55010	508
000 KW, MORE THAN 431 OF IT ALLOWS FOR THE NUC	55010	509
LEAR STEAM GENERATION UNIT. THEN BASIC PRINCI	55010	510
PLES OF DESIGN. ELEMENTS AND THE GENERAL DIAGR	55010	511
AMATIC PLAN ARE DISCUSSED. TRANSLATION AVAILA	55010	512
BLE UTS 62-11-111, JPRS12183, 29 JAN 1962.	55010	513
ICEBREAKER LENIN	55010	701
LENIN ICEBREAKER	55010	702
ICEBREAKERS. POWER EQUIPMENT	55010	703
POWER EQUIPMENT, ICEBREAKERS	55010	704
ICEBREAKERS, DESIGN	55010	705
DESIGN. ICEBREAKERS	55010	706
55011	55011	010
BEREZIN.P.P.	55011	101
NEW DESIGN FEATURES OF NETWORKS ON THE NUCLE	55011	201
AR ICEBREAKER LENIN.=	55011	202
SUDOSTROENIE, 27, AUG 1961, PP. 34-38	55011	251
THIS ARTICLE HAS APPEARED IN A SPECIAL NUMBER	55011	501

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OF SUDOSTROENIE WHICH REFERS TO ICEUREAKER LEN	55011	502 503
IN ONLY. It describes various new olsign flatures of ne	55011 55011	503 🥞 504 🚇
TWORKS AFICH WERE MADE NECESSARY BY ARCHITECTO	55011	50000000000000000000000000000000000000
NIC DESIGN OF INTERIORS, BY SPECIAL MAINTENANC	55011	5C6
E AND REPAIR REQUIREMENTS AND BY OTHER PACTORS	55011	5C7
RESULTING FROM LONG NAVIGATION PLRIODS. IN P	55011	50a 碧
ARTICULÁR, MATER SYSTEMS, AIR CONDITIONING SYS	55011	509
TEMS, ICEHREAKING SYSTEMS (HEELING AND TRIMMIN	55011	510 🖁
G TANKS AND PUMPS) AND NUCLEAR POWER PLANT SYS	55011	511
TEMS ARE DESCRIBED. TRANSLATION AVAILABLE OT	55011	512 🐉
S 62-11-111, JPRS12183, 29 JAN 1962.	55011	513
ICEBREAKER LENIN	55011 55011	701
LENIN ICEBREAKER	55011 55011	702 💈 703 👔
ICEBREAKERS, SYSTEMS Systems, Icebreakers	55011	704
55012	55012	
NOSOV • N • S •	55012	010 §
BEREZIN.P.P.	55012	102
FIRE SAFETY SYSTEMS ON THE NUCLEAR ICEBREAKE	55012	201 (
R LENIN.=	55012	202 🕺
SUDOSTROENIE, 27, AUG 1961, PP. 39-40	55012	251 🕺
THIS ARTICLE HAS APPEARED IN A SPECIAL NUMBER	55012	501 🚦
OF SUDOSTROENIE WHICH REFERS TO ICEBREAKER LEN	55012	502 ŧ
IN ONLY.	55012	503
IT DESCRIBES BRIEFLY THE MAIN DESIGN PRINCIPLE	55012 55012	504 <sup>1</sup>
S OF FIRE PROTECTION AND DETECTION SYSTEMS OF THE ICEBREAKER. AS A MAIN FIRE INSULATION MAT	55012	505 506
ERIAL, MINERAL FELT PADS PROTECTED BY ALUMINUM	55012	507
FOILS WERE USED. IT WAS TESTED SUCCESSFULLY	55012	508
AT TEMPERATURES UP 920 C. TRANSLATION OPTIONAL	55012	509
•	55012	510
ICEBREAKER LENIN	55012	701
LENIN ICEBREAKER	55012	702
ICEBREAKERS, FIRE PROTECTION	55012	703
FIRE PROTECTION. ICEBREAKERS	55012	704
55013	55013	010
ANONYMOUS	55013 55013	101 201
NUCLEAR ICEBREAKER LENIN.= SUDOSTROENIE, 25, JAN 1959, PP. 26-33	55013	251
THIS IS A DETAILED ARTICLE ABOUT THE LENIN ICE	55013	501
BREAKER. IT DESCRIBES THE FOLLOWING SUBJECTS	55013	502
THE HULL, MAIN AND AUXILIARY EQUIPMENT INCLUD	55013	503
ING MANY OF PROPULSION UNITS AND AUXILIARY POW	55013	504
ER PLANTS, FIRE PROTECTION, PUMPS AND WATER SY	55013	505
STEMS, HEATING AND AIR-CONDITIONING, HELM EQUI	55013	506
PMENT, BOATS, LOADING EQUIPMENT, NAVIGATION, C	55013	507
ONTROL AND COMMUNICATION SYSTEMS, LIVING QUART	55013	508
ERS AND MANY OTHERS.	55013 55013	509 } 510 }
UNLIKE OTHER SIMILAR ARTICLES: THIS ONE REFRAI NS FROM GENERAL AND GLORIFYING COMMENTS AND PR	55013	511
OVIDES USEFUL INFORMATION. TRANSLATION AVAILA	55013	512
BLE OTS 59-13, 527, JPRS 1591-N, 21 MAY 1959.	55013	513
ICEBREAKER LENIN	55013	701
LENIN ICEBREAKER	55013	702
ICEBREAKERS, DESIGN	55013	703 💈
DECIGN, ICEBREAKERS	55013	704
ICEBREAKERS, SYSTEMS	55013	705 🛊
SYSTEMS. ICEBREAKERS	55013	706
55014	55014	703 704 705 706 010
		, pa

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VAGILEVSKII.A.N.	, 55014	151
A NEW MARMOR ICEMPLÄRZK.=	55014	101
SUDOSTROUNIE, 26, JAN 1960, PP. 6-8	55014	251
A NEW ICEBREAKIR DESIGNED FOR BOTH HARBOR AND	55014	501
LINE SERVICE IS DESCRIBED. IT BELONGS TO THE	55014	502
INTERMEDIATE CLASS, HAVING ONE FORWARD AND TWO	55014	503
AFT PROPELLERS AND A DIESEL-ELECTRIC FACILITY	55Cl4	504
OF TOTAL OUTPUT 5400 HP. THE DESCRIPTION IS	55014	505
RATHER DETAILED, AND IT CONTAINS ALSO COMPARAT	55014	506
IVE DATA OF TEN OTHER PARTLY RUSSIAN ICERREAKE	55014	507
RS OF SIMILAR SIZE. THE GENERAL ARRANGEMENT O	55014	506
F CONSTRUCTION IS MENTIONED, INCLUDING SOME IN	55014	509
FORMATION ON MATERIALS USED. HOWEVER, NO INFO	55014	510
RMATION ON ALLOY STEELS WHICH HAVE BEEN USED I	55014	511
S DISCLOSED. THE POWER UNIT AND ITS POSSIBLE	55014	512
SERVICE ARRANGEMENTS ARE DISCUSSED. TRANSLATI	55014	513
ON RECOMMENDED.	55014	514
LEDOKOL CLASS	55014	701
ICEBREAKERS, HARFOR	55014	702
HARBOR. ICEBREAKERS	55014	703
RUSSIAN ICEBREAKERS	55014	754
ICEBREAKERS. RUSSIAN	55014	705
ICEBREAKERS. DESIGN	55014	706
DESIGN. ICEBREAKERS	55014	707
ICEBREAKERS. CONSTRUCTION	55014	708
CONSTRUCTION: ICEBREAKERS	55014	709
55016	55016	010
MAKLAKOV.N.T.	55016	101
ICEBREAKING CARGO SHIPS FOR THE ARCTIC.=	55016	201
SUDOSTROENIE, 27, JAN 1961, PP. 4-9	55016	251
THE ARTICLE DESCRIBES IN DETAIL TWO NEW TYPES	55016	501
OF CARGO ICEBREAKERS ANGARA (4 X 2050 HP) AND	55016	502
AMGUEMA (4 X 1800 HP). ATTENTION IS GIVEN TO D ESIGN PHILOSOPHY, STRUCTURE, ICEBREAKING CAPAC	55C16	503 504
ITY (7 FT. OF ICE THICKNESS OR 110 TONS PER ME	55016 55016	505 505
TER OF LOAD ALONG THE ENTIRE CONTOUR), EXPLOIT	55016	506
ATION AND EFFICIENCY FEATURES, POWER EQUIPMENT	55016	507
AND AUTOMATION EQUIPMENT. MANY DRAWINGS AND T	55016	508
ABLES ARE INCLUDED. TRANSLATION RECOMMENDED.	55016	509
ICE-GOING CARGO SHIPS	55016	701
CARGO SHIPS, ICE-GOING	55016	702
ANGARA ICE-GOING SHIP	55016	703
ICE-GOING SHIP ANGARA	55016	704
AMGUEMA ICE-GOING SHIP	55016	705
ICE-GOING SHIP AMGUEMA	55016	706
ICE-GOING SHIPS, DESIGN	55016	707
DESIGN, ICE-GOING SHIPS	55016	708
ICE-GOING SHIPS, CONSTRUCTION	55016	709
CONSTRUCTION. ICE-GOING SHIPS	55016	710
55017	55017	010
KHEJSIN,D.E.	55017	101
STRENGTH DETERMINATION OF STRUCTURES OF ICEB	55017	201
REAKING SHIPS BY CONVERSION FROM A PROTOTYPE.=	55017	202
SUDOSTROENIE, 27, JAN 1961, PP. 9-14	55017	251
THE METHOD DESCRIBED EXTENDS THAT OF JU. A. SH	55017	501
IMANSKIJ (1938) AND ENABLES TO COMPUTE STRENGT	55017	502
H OF ICEBREAKER STRUCTURES BY COMPARISON WITH	55017	503
A PROTOTYPE. THE PROCEDURE IS OUTLINED IN CON	55017	504
SIDERABLE DETAIL FOR THE CASE OF ICE PRESSURE	55017	505
ON HULL SIDES DURING SHIP MOTION AND FOR THE C	55017	506

Market and the second

		€.`
ASE COMPRESSION OF THE SHIP IN ICL. NECOMMEND ATIONS FOR PRACTICAL COMPUTATION ARE LISTED.	55017 55017	<b>6</b> 307 507
AN ILLUSTRATIVE EXAMPLE IS WORKED OUT. TRANSL	55017	508 509 7
ATION RECOMMINDED. ICIBREAKERS, CONSTRUCTION	55017 55017	510 701
CONGTRUCTION, ICEMPEAKERS	55017	702
ICFBREAKIRS: MODELS MCDELS: ICFBREAKERS	55017 55017	703 704
ICLBREAKLRS, DESIGN	55017	705
DECIGN: ICEBREAKERS	55017 55018	706 010
nEccuonov.v.M.	55018	101
FADDÉEV.O.V. REQUIREMENTS OF CLASSIFICATION RECISTERS ON	55018 5501a	102 201
STRENGTH OF SHIPS NAVIGATING IN ICE.=	55018	202
SUDOSTROENIE, 28, JAN 1962, PP. 7-10	55018	251
THIS IS A VERY USEFUL ARTICLE WHICH COMPARES B ASIC STRUCTURAL REQUIREMENTS OF TEN REGISTERS	55018 55018	501 502
ON CARGO SHIPS NAVIGATING IN ICE. REQUIREMENT	55018	503
S OF THE FOLLOWING REGISTERS ARE INCLUDED SEA REGISTER OF THE USSR (1956), LLOYD REGISTER O	55018 55018	504 505
F SHIPPING (1958), BUREAU OF SHIPS (1959), NOR	55018	506
WEGIAN VERITAS (1958) AND OF SIMILAR ORGANIZAT IONS IN FINLAND (1958), FRANCE (1959), GERMANY	55018 55018	50 <b>7</b> 50४
(1956), JAPAN (1956), POLAND (1957) AND ITALY	55018	509
(1956). A DETAILED COMPARATIVE TABLE IS INCLUDED AND INDIVIDUAL CLASSES ARE BRIEFLY DISCUSS	55018 55018	510 511
ED. ANREXAMPLE SHOWS A HYPOTHETICAL 10 000 TO	55018	512
N SHIP AND EVALUATES ITS STRENGTH CHARACTERIST ICS ACCORDING TO DIFFERENT REQUIREMENTS. IT A	55018 55018	513 514
PPEARS THAT THE TOP CLASSES OF THE ENGLISH LLO	55018	515
YD AND OF THE USSR REGISTER ARE SUPERIOR TO THE GERMAN, NORWEGIAN AND JAPANESE CLASSES. TRA	55018 55018	516 517
NSLATION RECOMMENDED.	55018	518
ICE-GOING SHIPS, SPECIFICATIONS SPECIFICATIONS, ICE-GOING SHIPS	55018 55018	701 702
ICE-GOING SHIPS, CONSTRUCTION	55018	703
CONSTRUCTION, ICE-GOING SHIPS 55019	55018 55019	704 616
EVTEEV, V.P.	55019	101
USE OF COMPUTERS IN SHIPBUILDING.= SUDOSTROENIE, 29, MAR 1963- P. 57	55019 55019	201 251
TWO SHORT SUMMARIES OF ENGLISH ARTICLES ARE GI	55019	501
VEN.	55019 55019	502 503
THE FIRST ONE DESCRIBES A COMPUTER-OPERATED MO DELING DEVICE WHICH IS USED FOR DESIGN OF NAVI	55019	503 504
GATION SYSTEMS OF AMERICAN NUCLEAR SUBMARINES .	55019	505
ORIGINAL REFERENCE ELECTRONICS, 35, NO. 12, 1962.	55019 55019	506 ( 507 )
THE SECOND ONE DEALS WITH USE OF COMPUTERS IN	55019	508
SHIP TURBINE DESIGN. ORIGINAL REFERENCE MARI NE ENGNR. AND NAVAL ARCH., 85, NO. 1035, 1962.	55019 55019	509 <i>°</i> 510
COMPUTERS, USE	55019	701
SUBMARINES, NAVIGATION SYSTEMS NAVIGATION SYSTEMS, SUBMARINES	55019 55019	702 : 703
PROPULSION SYSTEMS, SHIPS	55019	704 *
SHIPS, PROPULSION SYSTEMS 55020	55019 55020	705 010 ½
DOROKHOV • A • P •	55020	101
THE ICCBREAKER MOSKVA.=	55020	201

2:4

SUDOSTROINIE + 26 + CCT 1960 + PP - 1-5	5.625	251
THIS IS A VERY IMPORTANT ARTICLE WHICH DESCRIB	55323	551
ES IN OLTAIL ALL INPORTANT TECHNICAL DATA OF T	55526	
HE ICEOSTAKER MOSKVA WHICH WAS BUILT IN FINLAN		502
	55020	فرز ز
D IN*1960. IT MINTIONS ALSO MATERIALS AND WILL	55020	504
ING PROCEDURES. TRANSLATION RECOMMENDED.	55020	505
MOSKVA ICHRIAKER	55020	701
ICEBREAKLR MOSKVA	55020	762
MOSNVA CLASS	55023	703
POLAR ICEBREAKERS	55020	7°24
ICEBREAKERS, POLAR	55020	705
ICEBREAKERS, DESIGN	55020	706
BE- TEN TEN TEN BEAUTING		
55021	55020	707
	55021	013
UKHIN, S.I.	55∪21	151
A BOAT FOR SHIPS NAVIGATING IN ICE.=	55021	201
SUDOSTROENIE, 26, JUN 1960, PP. 30-32	55021	251
THE ARTICLE DESCRIBES A SERVICE BOAT WHICH IS	55021	501
USED ON ICEBREAKER LENIN. IT IS 35 FT. LONG.	55021	502
11 FT. WIDE, CARGO CAPACITY 8.2 TONS, WATER DI	55021	503
SPLACEMENT 10.5 TONS, SPEED 7 KNOTS, OPERATION	55021	504
RANGE (RADIUS) 85 MILES, PROPULSION CAPACITY		
	55021	505
7.5 HP. IT HAS WELDED STEEL STRUCTURE, DIESEL	55021	506
PROPULSION, SUFFICIENT THERMAL INSULATION, ET	55021	507
C. RADIO AND NAVIGATION FACILITIES ARE ALSO D	55021	508
ESCRIBED.	55021	509
THE BOAT HAS BEEN DESIGNED TO SERVE IN DIFFICU	55021	510
LT POLAR CONDITIONS. IT HAS ALSO LIMITED ICEB	55021	571
REAKING CAPACITY, AND IT OPERATED SUCCESSFULLY	55021	512
IN 2 IN. OF ICE. TRANSLATION OPTIONAL.	55021	515
ICEBREAKER LENIN	55021	701
LENIN ICEBREAKER	55021	702
ICEBREAKERS, BOATS		
	55021	703
BOATS, ICEBREAKERS	55021	7C4
BOATS. DESIGN	55021	705
DESIGN, DOATS	55021	706
55022	55022	610
LANK • R • B • • JR •	55022	101
INFLUENCE OF ARCTIC OPERATIONS ON FUTURE SHI	55022	201
P DESIGN.=	55022	202
AMERICAN SOCIETY OF NAVAL ARCHITECTS, 1947, PP	55022	251
. 139-145	55022	252
THE ARTICLE DESCRIBES THE HISTORY OF FIRST AME	55022	301
RICAN ICEBREAKERS (NORTHWIND CLASS), BUILT FOR		
	55022	502
THE U. S. COAST GUARD. USE OF THESE ICEBREAK	55022	503
ERS BY RUSSIANS DURING THE WWII AND PERFORMANC	55022	504
E DATA ARE MENTIONED. THEN SOME GENERAL COMME	55022	505
NTS ON FUTURE ICEBREAKERS DESIGN AND ON CARGO	55022	506
SHIPS OPERATING IN ICE ARE INCLUDED.	55022	507
AMERICAN ICEBREAKERS	55022	701
ICEBREAKERS, HISTORY	55022	702
HISTORY, ICEBREAKERS	55022	703
ICEBREAKERS, DESIGN	55022	703
DESIGN, ICEBREAKERS	55022	
		705
ICEBREAKERS. AMERICAN	55022	706
550 23	55023	.010
MILANO, V.R.	55023	101
NOTES ON ICEBREAKER DESIGN.=	55023	201
J. AMER. SOC. NAVAL ENGNRS., FEB 1962, PP. 43-	55023	251
50	55023	252

	•	
THIS ID A PAST OF THE AUTHORS NODETH SIS. 17	55023	501
PRESENTS A SOURT ACCOUNT OF ICLUMENCING THEORY	5502 <b>3</b>	502
AND OF RESULTING REAL RESIDENTS ON TO LIVER 15.	55025	503
FIRST, IT GIVES MEAN SURFACE TO PERATURES OF	55023	504
ICE IN VARIOUS POLAR ARLAS. THIS WIRL SURFAC	55023	505
E TEMPERATURE IS CONSIDERID AS A MASIS FOR COM	55023	506
PARISON OF MECHANICAL PROPERTIES OF ICE. A GR		
	55023	507
APH OF VERTICAL HOW FORCE VS. TUMPERATURE, COM	55023	508 500
POSITION AND THICKNESS IS SHOWN. THEN PROPULS	55023	509
ION MACHINERY AND THRUST PREDICTIONS ARE DISCU	55023	510
SSED WITH SPECIAL ATTENTION TO ZERO VELOCITY C	55023	511
ONDITION. THE REMAINING PART IS DEVOTED TO IC	55023	512
EBREAKING THEORY, NAMELY TO ICEBREAKER MOTION	55023	513
IN ICE AND TO ITS ABILITY TO BREAK ICE.	35923	314
ICCBREAKERS, DESIGN	55023	701
DESIGN, ICENREAKERS	55023	702
ICE CHARACTERISTICS	55023	703
ICEBREAKERS, CONSTRUCTION	55023	704
CONSTRUCTION, ICEBREAKERS	55023	705
ICEBREAKING, THEORY	550 <b>23</b>	706
THEORY, ICEBREAKING	55023	707
55024	55524	016
MI'ANO, V.R.	55024	101
PRELIMINARY VESSEL ESTIMATES IN ICEBREAKER D	55024	201
ESIGN.=	55624	202
J. AMER. SOC. NAVAL ENGNRS., AUG 1962, PP. 505	55024	251
=513	55024	252
THIS PAPER HAS SOME FEATURES IN COMMON WITH RE	55024	501
FERENCE 13052 BY THE SAME AUTHOR. IT DEALS WI	55024	502
TH PRELIMINARY ESTIMATES OF VESSEL LENGTH AND	35024	503
DISPLACEMENT, OF BOLLARD PULL PER SHAFT AND OF	55024	504
VESSEL STABILITY. ALL ESTIMATES ARE DASED ON	55024	505
CONDITIONS RESULTING FROM INTERACTION OF THE	55024	506
BOW AND ICE AND HENCE RELATED TO ICE PROPERTIE	55024	507
S. AN EXTENSIVE EXAMPLE OF A PRELIMINARY ESTI	55024	508
MATE IS GIVEN.	55024	509
ICEBREAKERS, DESIGN	55024	701
DESIGN, ICERREAKERS	55024 55024	702
ICEBREAKERS, CONSTRUCTION	55024	703
CONSTRUCTION, ICEBREAKERS	55024 55024	704 705
ICEBREAKING, THEORY	55024 55024	705
THEORY, ICEBPEAKING	55024	706
550 25	55025	010
ANONYMOUS	55C25	101
THE FUJI A NEW ANTARCTIC OBSERVATION SHIP.=	55025	201
JAPAN SHIPBUILDING AND MARINE ENGNG., MAR 1966	55025	251
• PP • 42-44	55025	252
THIS IS ANOTHER DESCRIPTION OF ICEBREAKER FUJI	55025	501
(C.F. REF. 55003). THE ARTICLE GIVES A CONDE	55025	502
NSED DETAILED ACCOUNT OF TECHNICAL DATA OF THE	55025	503
ICEBREAKER. IN ENGLISH.	55025	304
ICEBREAKER FUDJI	55025	701
FUDUI ICEBREAKER	55025	702
ICEBREAKERS, DESIGN	55025	703
DERIGN. ICEBREAKERS	55025	704
55026	55026	010
WAAR • H •	55026	101
ICEHRE \ RS WIT PITCHING EQUIPMEAT.=	55026	201
VDI ZEITSCHRIFT, 101, NO. 32, NOV 11. 1959, PP	55026	251
• 1499 <b>-</b> 1502	55026	252

THIS IS A . 15T TO T A	55026	501
MORK A SICH HALL HETWICKLES SINCE TYEER MAINLY T	55025	502
N CERMANY, ON PITCHING - WHIPMENT FOR ICEMP AKE	55026	
RS. SUCH EN INVENT CONCISTS USUALLY OF TWO EC	50026	504
CENTRIC & IGHTS, ROTATING -POUND THE SAME HORI	55026	50 J
LONGTAL AND SOLIT IN OPPOSITE DIRECTIONS. HENCE	95026	200 200
• A NURTICAL OSCILLATING FOREY OF PRESCRIBLD R	55 <b>26</b>	507
NGN:TUNE AND FRUGUENCY IS PRODUCED. THIS EQUI	55026	もぐみ
PMENT RÉPLACES, HEELING AND TRIMMING TARKS MHIC	55526	509
H PRODUCE DALY STATIC FORCES. THE DYNAMICS OS	5%526	510
CILLATING FORCE MAINTAINS PARTLY THE NATURAL P	53026	4,11
ITCH AND ROLL MOTION OF THE SHIP DURING ICEBRE	55026	512
AKING AND VIRTUALLY DOUPLES THE ICEBREAKING CAP	55026	513
PACITY OF A GIVIN SHIP.	55026	534
	55026	515
ALTHOUGH SUCH EQUIPMENT HAD MEEN USED ONLY ON		
RELATIVELY SMALL ICLOREAKERS (3000 mP) AND TUG	55026	516
S. IT IS EXPECTED THAT LARGE ICEBREAKERS MAY B	55026	517
ENEFIT AS WELL.	55026	510
THE FORCED DYNAMIC MOTION OF THE SHIP IN ICE P	55626	519
RODUCES SOMEWHAT DIFFERENT REACTIONS FROM THE	55026	520
SURROUNDING ICE. HENCE, SLIGHTLY DIFFERENT BO	55026	521
W SHAPE IS REQUIRED, NAMELY, 15 DEGREE BOWSTEM	55026	522
SLOPE IS FAVORED. SOME EXAMPLE SECTIONS ARE	55026	523
SHOWN	55026	524
ICEBREAKERS, PITCHING EQUIPMENT		7 ~ 1
	550Z6	702
PITCHING EQUIPMENT, ICEBREAKERS	55026	702
ICEBREAKERS, CONSTRUCTION	55026	703
CONATRUCTION, ICEBREAKERS	55026	704
ICEBREAKERS, DESIGN	55026	705
DEGIGN: ICEBREAKERS	55026	
55027	55027	210
ANONYMOUS	5502 <b>7</b>	101
THE MACKINAW SECURES OPERATION SPRING.=	55027	251
FAIRBANKS-MORSE NEWS, 23, NO. 4	55027	<b>451</b>
THIS IS AN EXPOSITORY ARTICLE WHICH DESCRIBES	55027	
AN ACTION OF U.S.C.G. ICERREAKER MACKINAW AND	55027	
CTHER VESSELS IN THE SPRING OF 1947 DURING WHI	55027	
	55027	304 304
CH SHIPPING LANES WERE OPEN ON GREAT LAKES AND		505
IN JOINING CHANNELS.	55027	
ICEBREAKER MACKINAW	55027	701
MACKINAW ICEBREAKER	55327	702
ICEBREAKERS, OPERATION	55027	703
OPERATION, ICEBREAKERS	55 <b>02</b> 7	704
55028	55028	010
WAAs,m.	55028	101
EFFICIENCY OF MECHANICAL PITCHING PLANTS INS	55028	201
TALLED IN ICEBREAKERS.=	55028	202
SCHIFFUALTECHNISCHE GESELLSCHAFT, NOV 1958, PP	55028	251
	55028	252
2=17 THIS IS A MANUSCRIPT OF A LECTURE BY THE AUTHO 1 THIS IS A MANUSCRIPT OF A LECTURE BY THE AUTHO	55028	501
		502
R ON PITCHING ROUIPMENT FOR ICEOREAKERS (C.F.	55028	502 503
11054). IT DESCRIBUS EXTENSIVELY THE FAVORABL	55028	
E EXPERIENCE WITH PITCHING EQUIPMENT ON ICEBRE	55028	50 <del>-</del>
AKERS WISENT (BUILT IN 1952), LMSHORN (1955/56	55028	505
), EISPUCHS (1957) AND SEIDENSTEIN. ALTHOUGH	55028	506
THOSE ARE ONLY SMALL ICEEREAKERS (300 TONS, 10	55028	507
DO HP). THE EXPERIENCE SHOWS THAT THEY WERE CA	55028	508
PABLE OF PERFORMING LIKE VESSELS OF TWICE THAT	55028	509
SIZE. HENCE, IT IS NECESSARY TO EQUIP SUCh I	55028	510
	55J25	511
CEDREAKERS WITH STRONGIR HULLS.	22045	714

. :

THE LECTURE FURTHER DISCUSSES THE THRORETICAL	55028	514
ASPECTS OF SHIP DESIGN WITH PLSP. ST TO PITCHIN	15028	513
G EQUIPMENT (VINRATION MALYSIS, OPT. MON FREQU	シンジスカ	5 1 4
ENCY AND AMPLITUDE, LTC. ). IT IS EXPECTED THA	55048	515
T EVEN LARGE ICL PRIAKERS MAY BE EQUIPPED WITH	55028	516
PITCHING LOUIPMINT.		
	55-28	517
THEORY OF ICEBRUAKING IS HRIGHLY DISCUSSIO, AN	55028	510
D IT IS SHOWN THAT LYMAMICAL FORCES PRODUCED B	55028	519
Y PITCHING EQUIPMENT ARE NORE EFFICIENT IN ICE	55028	520
HRENKING, CAPABLE OF BREAKING THICKLR ICE AND	55028	521
OF PRODUCING SMALLER FLOES. RESULTS OF FIELD	55028	522
AND LABORATORY EXPERIMENTS ARE DISCUSSED.	55028	523
FINALLY, EFFECTS ON CREW ARE DISCUSSED AND CON	35028	524
SIDERED AS NEGLIGIBLE. THE LECTURE SHOULD CON	55028	525
TAIL 15 FIGURES AND THREE MOVIES. NONE OF THO	55028	526
SE IS ATTACHED TO THE MANUSCRIPT. IN ENGLISH.	55028	527
ICEBREAKERS, PITCHING EQUIPMENT	55028	701
PITCHING EQUIPMENT, ICÉBREAKERS	55028	
GERMÂN ICEBREAKERS		702
ICEBREAKING. THEORY	55028	703
	55028	734
THEORY, ICEBREAKING	55028	705
ICEBREAKERS, GERMAN	55028	706
55029	55029	010
ANONYMOUS	55029	201
ICEHREAKER JOHN A. MACJONALD.=	55029	201
SUDOSTROENIE, 27, JUL 1961, PP. 76-77	55029	251
THIS IS A SHOPE ABSTRACT ON THE TITLE SHIP. IT	55029	501
GIVES BASIC DATA (15 DUD HP, 3200 TONS, 95 ME	55029	552
TERS LONG, 21 METERS WIDE, MAX. 16 KNOTS, CRUI	55029	503
SING RADIUS 10 000 MILES AT 10 KNOTS) AND BRIE	55029	3 C 4
F DESCRIPTION OF THE PROPULSION AND OTHER SYST	55029	505
EMS. FOR ORIGINAL REFERENCE, SEE MAKINE ENGI	55029	506
NEERING (LOG, XII, VOL. XV, NO. 13, 1960 AND C	55029	507
ANADIAN SHIPBUILDING XI, VOL. 32, NO. 2, 1960.	55029	508
ICEBREAKER JOHN A MACDONALD	5 <b>5</b> 029	701
JOHN A MACDONALD ICEBREAKER	55029	702
ICEBREAKERS, DESIGN	55029	702
DESIGN, ICFBREAKERS	55029	704
55030	55630	013
SHIMANSKIJ,JU.A.	55030	101
MAKSIMADZHI,A.I.		
	55030	102
KOROTKIN, JA.I.	55030	103
NEW RULES FOR CLASSIFICATION AND CONSTRUCTIO	55030	201
N OF STEEL SEA SHIPS OF THE SEA REGISTER OF US	55030	202
SR•=	55030	203
SUDOSTROENIE, 23, JAN 1937, PP. 4-10	5503C	251
THIS IS AN EXPERT CRITICAL EVALUATION OF THE N	55030	501
EW RULES OF 1956 WHICH WERE TO REPLACE THE 194	55030	502
O ISSUE. IT CONTAINS MANY COMMENTS, SOME OF T	55030	503
HEM BEING VERY CRITICAL. OBJECTIONS ARE CONCE	55030	504
NTRATED MAINLY ON PROBLEMS OF HULL DESIGN, AND	55030	505
CONSIDERABLE ATTENTION IS GIVEN TO USE OF STE	55030	306
ELS WITH HIGHER MECHANICAL PROPERTIES. HERE T	55030	507
HE RATIO OF ULTIMATE STRENGTH TO YIELD STRENGT	55030	508
H IS INTRODUCED IN THE RULES FOR USE IN DESIGN	55030	509
FORMULAE. NATURALLY IN THE RULES THIS OBSCUR	55030	510
E RECOMMENDATION IS SEVERFLY CRITICIZED, ALSO	55030	511
BECAUSE IT WOULD DISCOURAGE FROM USE OF BETTER	55030	512
STEELS. THERE ARE MANY OTHER COMMENTS WHICH	55030	513
INDICATE THAT THE RULES CONTAIN BOTH MODERN AN	55030	514

was one of the

,

D OBSOLETE RECOMMENDATIONS.	25026	51.
SHIPS; SPECIFICATIONS	: 5424	751
SPECIFICATIONS. SHIPS	ي د پر څڅ	₹5∠
REGISTER. PUSSIA	٥ يون ور	703
RUSSIA, REGISTER	25650	704
SHIPS, DESIGN	25430	705
DEGIGN. SHIPS	55435	706 j
55031	55031	616
ANCNYMOUS	55031	101
ON THE NUCLEAR ICEDREAKER LENIM.=	55031	2:
SUDOSTROENIE, 25, AOV 1959, PP. 39-71	55031	251
THIS IS A SHORT NOTE CONTAINING & PHOTOGRAPHS	55031	501
OF THE ICEBREAKER, 5 OF THEM SHOW INTERIORS.	55031	502
ICEBREAKER LENIN	55031	701
LENIN ICEBREAKER	55031	752
55032	55032	010 101
TKA CHUK • G • N •	55032	îoi
FORMULAE FOR RESISTANCE COMPUTATION OF NICHE	55032	201
S AND HOLES IN SHIP FULL.=	55032	202
SUDOSTROENIE, 25, OCT 1959, PP. 9-13	55032	251
THIR IS A DESCRIPTION OF EXPERIMENTAL AND THEO	55032	501
RETICAL STUDIES WHICH YIELD ROUGHNESS COEFFICE	55032	502
ENTS FOR COMPUTATION OF SHIP RESISTANCE. IN PA	55032	503
RTICULAR, VARIOUS NICHES OF RECTANGULAR SHAPES	55032	504
ARE CONSIDERED.	55 <b>u</b> 32	533
REGISTANCE, FLUID DYNAMICS	55032	701
FLUID DYNAMICS. RESISTANCE	55032	702
55033	55033	010
BREGMAN • V • I •	55033	101
NUMERICAL INTEGRATION FORMULAE FOR USE IN CA	55033	201
LCULATIONS OF SHIP STRUCTURES ON COMPUTERS.=	55033	202
SUDOSTROENIE, 25, FEB 1959, PP. 12-14	55033	251
AFTER A SHORT SUMMARY OF PRESENT FORMULAE FOR	55033	50î
NUMERICAL INTEGRATION, THE ARTICLE NOTES SPECI	55033	502
AL REQUIREMENTS FOR INTEGRATION OF CERTAIN FUN	55033	503
CTIONS OF THE SHIP SURFACE ALONG THE SHIP LENG	55033	504
TH. THOSE REQUIREMENTS INCLUDE A SUFFICIENT	55033	505
ACCURACY WITHOUT ADDITIONAL ORDINATES, LOCATIO	55033	503
N OF ORDINATES ON THEORETICAL FRAME AXES WHEN	55033	507
20 SECTIONS ARE CONSIDERED. THE NUMBER OF ORD	55033	508
INATES SHOULD BE MINIMUM.	55033	509
A SERIES FORMULA (2) IS GIVEN WITH COEFFICIENT	55033	510
S WHICH ARE OBTAINED AS SOLUTIONS OF A SYSTEM	55033	511
OF LINEAR ALGEBRAIC EQUATIONS (3). ALL DETAIL	55033	512
S ARE GIVEN. AS AN EXAMPLE, AREAS AND CENTERS	55033	513
OF GRAVITY ARE EVALUATED FOR A SET OF ALGEBRA	55033	514
IC CURVES. ALTOGETHER 7 FORMULAE WITH VARIOUS	55023	515
NUMBER OF ORDINATES ARE COMPARED. THOSE DÉVE	59J <i>J</i> 3	うえの
LOPED IN THIS ARTICLE SHOW BEST ACCURACY WITH	55033	517
THE LOWEST NUMBER OF ORDINATES. TRANSLATION O	55035	515
PTIONAL.	55033	519
MATHEMATICAL METHODS	5503 <b>5~</b>	731
METHODS, MATHEMATICAL	55033	702
COMPUTERS, USE	55033	703
SHIPS, DESIGN	55033	704 -
DESIGN. SHIPS	55033	705 J
55034	55034	010.
SMOLJAKOV+B+N+	55034	101 {
DETERMINATION OF MINIMUM THICKNESS OF HULL S	55034	201
HELL MADE OF A HIGHER-STRENGTH STEEL .=	55034	202
<del></del>		

Ti anni

	٠,	
303087 (UL VI , 20, FER 19.5, PP. 7-10	50034	251
THIS ARTICLE CONTAINS PLCO-MENDATIONS AND TABLE	55034	501
ES FOR SILECTION OF SHLET THICKNESS FOR VARIOU	55034	502
S PINTS OF HULL STRUCTURE OF RIV. A MIL SEN CAR	ენე34	503
GO SHIPS RISPICTIVELY. SHILE ATTENTION IS PAI	55034	504
D TO RULLS OF THE SHIPPING REGISTER OF U.S.S.R	55034	505
. (AND AN CHROLETE FORMULA FOR THICKNESS RELUC	55034	506
TION IS CONSIDERED, C.F. 55030; DEVIATIONS ARE	55034	507
ALLOWED WITH RESPECT TO CORROSION PESISTANCE,	55034	5 C 3
ETC.	<b>り</b> ぎ034	509
HIGH STRENGTH STEELS	55034	701
STEELS. HIGH STRENGTH	55034	752
SHIPS, DESIGN	55034	703
PERION, SHIPS	59034	704
55035	55035	010
STATSmINOV, V.A.	55C35	101
EXPERIENCE OBTAINED FROM APPLICATION OF RUBB	55035	201
ER TUG BUMPERS ON ICLBREAKERS.=	55035	202
SUPOSTROENIE, 28, FEB 1962, PP. 57+64	55035	2:1
THIS IS A SHORT BUT REASONABLY DETAILED DESCRI	55035	501
PTION OF THE TITLE TOPIC. IT IS RECOGNIZED TH	55035	502
AT DURING TOWING AND ICEBREAKING OPERATIONS, T	55035	503
HERE IS A DANGER OF COLLISION OF SHIPS. HENCE	55035	504
, ICEAREAKERS HAVE TO BE EQUIPPED WITH SUITANL	55035	505
E RAFETY FOUIPMENT. RUBBER BUMPERS WHICH ARE C		506
SUILLY USED OM TUGS MAY SERVE FOR THAT PURPOSE	55035	507
• ROME ADJUSTMENTS ARE NECESSARY FOR USE ON I	55035	508
CEBREAKERS. THOSE ARG DESCRIBED (INCLUDING DI	55035	509
MERGIONS) AND A GENERAL DRAWING IS SHOWN. IT	55035	510
IS REPORTED THAT SUCH RUMPERS WERE SUCCESSFULL	55035	511
Y USED ON ICEBREAKER LENIN. TRANSLATION OPTIO	55035	512
NA L.	55 <b>03</b> 5	513
ICEBREAKERS, FENDERS	55035 55035	701
FENDERS, ICERREAKERS	55C35 55C35	702 703
SHIPS, SAFETY EQUIPMENT	55035 55035	704
SAFETY EQUIPMENT, SHIPS	55035	705
ICFBREAKER LENIN	55035 55035	705
LENIN ICEBREAKER 55036	55C3A	010
GUNDOBIN: A.A.	55036	101
ICEBREAKER SIBIR IN THE ARCTIC.=	55036	201
SUDOSTROENIE, 28, APR 1962, P. 81	55036	251
THIS IS A VERY BRIEF NOTE ON THE TITLE ICEBREA	55036	501
KER. IT WAS COMPLETELY REBUILT IN 1959. CONS	55036	502
IDERABLE PORTION OF STRUCTURAL PARTS (3000 TON	55036	503
S) WAS REPLACED, AND THE ORIGINAL COAL WAS CHA	55036	504
NGED TO A LIQUID FUEL. THE ICETREAKER HAS NOW	55036	505
12 900 HP. 8326 TONS DISPLACEMENT, SPEED 13.	55036	506
9 KNOTS AND PERIOD OF INDEPENDENT OPERATION HA	55036	507
S DEEN INCREASED FROM 25 TO 52 WEEKS.	55036	508
ICEBREAKER SIBIR	55030	701
SIDIR ICEBREAKER	55036	702
ICESPEAKERS, MODERNIZATION	55036	703
MODERNIZATION, ICEBREAKERS	55036	704
55037	55037	010
MOGID • L • M •	55037	101
DUBROVIM.D.V.	5_037	102
ON VISCOUS RESISTANCE OF ICEBREAKERS.=	55037	201
SUDOSTROENIE, 28, JUN 1962, PP. 10-14	55037 55037	251 501
THIS IS AN EXTENSIVE AND DETAILED DESCRIPTION	55037	501

The second of th

MALANNINA C WILL ST. S. C.

OF EXPERIMENTS WHICH LEDGE PERFORMED IN THE LEA	ンシンンフ	20%
INGRAD SHIP WILDING INSTITUTE. CALED WODELS	\$50537	د. بن ک
FROM 1 100 TO 1 20 OF THE ICHREAKER SILIR WER	50037	: 2-
E TESTED IN A TANK FOTH IN CLEAN WATER AND IN	55837	505
	J. 9.7	
ICE MADE OF PARAFINE. THE RESULTS HAVE SHOWN	5-037	5 N.C
THAT FOR SIZES FROM 1 60 TO 1 29, THE RESULTS	55∪37	507
APE CONSISTENT. RESISTANCE COLFFICIENTS AND O	<u>ნი</u> ზ37	<b>5</b> 0,5
THER DATA HAVE HEEN MEASURED AND GENERALIZED.	55037	50,9
TRANSLATION RECOMMENDED.	55037	::0
ICEBREAKERS, MODELS	55037	731
MODELS, ICEBRIAKERS	55637	702
ICEBREAGER SIBIR	55037	702
	55C37	
· · · · · · · · · · · · · · · · · · ·		704
RESISTANCE, FLUID DYNAMICS	55037	765
FLUID DYNAMICS, RESISTANCE	55037	705
55038	55058	010
ANONYMOUS	55038	101
AN ICEBREAKING SHIP FOR LAYING AND REPAIRING		
OF UNDERWATER CABLES.=	55038	202
SUDOSTROENIE, 28, NOV 1962, PP. 74-75	55038	251
THIS IS A SHORT SUMMARY OF AN ENGLISH ARTICLE	55038	501
	55038	
TON THE TITLE SHIP BUILT IN CANADA. FOR ORIGIN		502
AL REFERENCE, SEE SHIPBUILDING AND SHIPPING R	55038	503
ECORD, 99, NO. 14, 1962.	55Q38	504
ICE-GOING SMIPS	55038	701
SHIPS, ICE-GOING	55038	702
55039	55039	JŽÕ
BUDJAKIN:A.A.	55339	151
DETERMINATION OF THE DIAMETER OF A RUDGER SH	55039	201
AFT FOR ICEHREAKERS AND ICEBREAKING SHIPS.=	35039	202
SUDOSTROENIE, 23, DEC 1962, PP. 13-15	55039	251
THIS IS A SHORT BUT DETAILED ARTICLE. IT IS R	ううひち9	501
ECOGNIZED THAT RUDDER SHAFTS ARE OFTEN BENT WH	55039	うのと
EN INTERACTING WITH ICE. HENCE, DESIGN MUST I	55039	503
NCLUDE SUFFICIENT SAFETY AGAINST BENDING. SIM	53039	504
PLE FORMULAE FOR DESIGN ARE GIVEN AND A NUMBER	55039	505
K DETERMINING THE RELATIVE STRENGYA IS DERIVE	55039	506
[. IT IS SHOWN THAT ICEBREAKERS WITH K 6 SU	55039	507
FJERED SHAFT DAMAGE. A TABLE THEN SHOWS COMPA	55039	508
RATIVE DATA (SHAFT DIAMETER AND YIELD STRENGTH	55039	509
. AREA. AND CENTER OF GRAVITY OF THE RUDDER. S	55039	510
PEED, NUMBER OF SHAFTS AND K) FOR 17 CLASSES O	55039	511
F RUSSIAN ICEBREAKERS AND ICEBREAKING SHIPS.	55039	512
10 OF THEM HAVE K 6. TRANSLATION RECOMMENDE	55039	513
-	55039	514
D. DEAKEDS DIDDEDS		701
ICEBREAKERS, RUDDERS	55039	
RUDDERS, ICEBREAKERS	55039	702
ICEBREAKERS, DESIGN	55039	703
DESIGN, ICEBREAKERS	55039	704
	35C4C	310
55040		
SMOLJAKOV, V.N.	55040	101
REDUCTION IN WEIGHT OF SHIP HULLS AS A FUNCT	55040	201
ION OF YIELD STRENGTH OF USED STEELS.=	<b>55</b> 040	202
SUDOSTROENIE, 23, APR 1957, PP. 1-4	55040	251
		501
THIS IS A PATHER DETAILED AMALYSIS OF THE TITL	55040	
E SUBJECT. IT IS RECOGNIZED TH PEDUCTION IN	55040	5C2,
WEIGHT CANNOT BE PROPORTIONAL TO INCREASE IN	55040	503
YIELD STRENGTH SINCE VARIOUS OTHER FACTORS MUS	55040	504
T BE CONSIDERED IN DETERMINATION OF PROFILE DI	55040	505
MENGIONS. WEIGHT ESTIMATES ARE MADE FOR HYPOT	55040	500
		ŧ

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		· **
HETICAL SHIPS OF A GIVEN SIRUCTURAL ARRANGEMEN	55040	
T. IT IS SHOWN THAT FOR PIVER CARGO SHIPS, PE	25040	5 n 3
ASONABLÉ NTIGET REDUCTIONS ARE ACCIEVED WHEN Y	55045	
IFUR STRENGTH IS RAISED FROM 25 TO FE KRYMM I	55040	510
(35.5 TO 71 KSI). THE RELATIVE REJUCTION DEPL	55040	ລີພ
ADS ON OVERALL LENGTH AND AMOUNTS TO 5 PER CLM	25.1.0	
T FOR L = .0 M, 15 PER CENT FOR L = 60 M, AND 35 PER C NT FOR L =	J40	j., `
SHIPS. DESIGN	リカに任じ カカ <b>ひ4り</b>	5.4 70:
Diskan, Ships	55040 55040	
MATERIALS, SELECTION	550 <b>40</b>	
SELECTION, MATERIALS	AA340	_
HULL DESIGN	<b>5</b> 5040	• •
DESIGN, HULL	55640	
55041 REJNOV, M.N.	55741	
THE USE OF COMPUTERS IN SHIP STAYICS CALCULA	55041 55 <b>041</b>	
TIONS.=	5504.	201 202
SUDOSTROENIE, 23, MAY 1957, PP. 49-52	55041	
THIS IS AN EXPOSITORY ARTICLE CONTAINING SOME	55041	501
EXAMPLES OF GENERAL NATURE. THE EXPLANATIONS	55041	śčż
AND METHODS USED ARE FLEMENTARY. EXAMPLES INC	55 141	503
LUDE VOLUME DETERMINATION FROM CROSS-SECTION S	55041	
HAPE, CENTERS OF GRAVITY, SHIP STABILITY PROBL	55041	503
EMS, ETC. NO DETAILS OR NUMERICAL RESULTS ARE SHOWN.	58641 05041	506 507
COMPUTERS, USE	55041 55041	701
SHIPS, DESIGN	55041	702
DECIGN, SHIPS	55041	703
55042	55042	010
NAVROCKIJ.D.I.	55042	101
STRENGTH COMPARISON OF MELDED AND RIVETED JO	55042	201
INTO UNDER DYNAMIC LOADING.= SUDOSTROENIE, 23, AUG 1957, PP. 7-11	55042 55042	202
THIS IS A DESCRIPTION OF EXTENSIVE EXPERIMENTS	55042 55042	251 501
PERFORMED ON STRUCTURAL JOINTS OF ACTUAL SIZE	55042 55042	502
. COMPARISON OF TYPICAL SHAPES AND ARRANGEMEN	55042	503
TS SHOWS THAT RIVETED JOINTS OF EQUAL WEIGHT A	042در	504
S MELDED ONES HAVE ONLY ABOUT 401 OF STRENGTH	55042	505
OF THE LATTER.	55042	506
THIS ARTICLE IS A PART OF EXTENSIVE WORK OF THE AUTHOR WHO IS WELL KNOWN FOR HIS STUDIES IN	55042 55042	507 503
STRENGTH OF WELDMENTS.	55042 55042	
METALS, WELDING	55042	701
WELDING, METALS	55042	702
METALS, JOINING	55042	703
JOINING, METALS	55042	704
55043	55043	010
ANONYMOUS	55043	101
A CLASS OF ICEHREAKING SHIPE.= SUDOSTROENIE, 28. NOV 1962; P. 77	55043	201 /
THIS IS A SHORT ACCOUNT OF PAPERS WHICH HAVE A	55043 55043	251 501
PPEARED IN HOLLAND SHIPBUILDING, 10, JULY 1961	55C43	502
, AND 11, MAR 1962, RESPECTIVELY.	55%43	503
ICEBREAKING CARGO SHIPS RITVA DAN AND ERITA DA	55043	504
N ARE DESCRIBED. DATA LENGTH 98.5 M. BREADTH	55043	505
14M, DEPTH FROM UPPER DECK 8 M, DRAUGHT UNUER	55043	506
LOAD 6.6 M, DEAD WEIGHT 3750 TONS, SPEED 14.5	55043	507
KNOTS: SKIN THICKNESS AY WATERLINE 25 MM (1 1 No.) AT STERN AND 18 MM (0.7 IN.) SIDES. A MAI	55043 55043	508 509
WEL HE STEAM WHO TO NOT TORY TORY STORES WINNI	22643	267

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	55000	
THE SECURITIES OF 201 OF ACLIVE SYMING THE	50045	
71 € \$-376 7ATORS NOS 210 KVA AN 466 V•	5:04:	70
10 - 4 1 - 1-12 1 1 1 VA DAN	32043	702
19. 19. 10. 1000.116 Sile	57043	753
TE - ON IN SECO - OFTA DAN	5543	704
HRITH IN ICHTOING OMIP		705
INTAGOINE SHIPS, DESIGN	55045	706
SECTO : IC: - COING SHIPS	55043	7.00
550.4	55444	
→ MLENXO, G.C.	55044	
ON TATIONAL DISTRI STION OF SHIP LOAD FROM T	55044	201
WANTED TO STATE OF THE MANAGEMENT OF THE MANAGEM	5504.4	214
HE GINER I STRINGTH VIL POINT.	55,144	251
\$UDO\$100ENIE - 23 - UNT 1957 - PP - 3-51	55644	501
THIS IS A DESCRIPTION F & WITHOUT FOR FATIONAL	55644	= 2,2
DISTRIBUTION OF A GIVEN LOAD IN INDIVIDUAL PA	55044	و يَّ رَ
OFF OF A SHIP. GIVERAL SIRENGIA IS TAKEN AS A	55044	504
CONTRACTOR PERSTA THE MUCHOU IN EXPLAINED AND	55044	د ن
EN PURETUR STARBAINS FOR CONTROL OF SMIP LUAD A	55044	503 503
THE BE AUATIANTE THE COST OF ECUIPMENT MILLER AN		507
	55044	
LY. THE' APPROXIMATE FORMULAE ARE GIVEN WHEN	55044	500
DIAGRAMS ARE NOT AVAILABLE. ALL ARE VERY SIMP	55044	509
LE. AS IS THEIR EXPLANATION.	55044	510
	55044	701
SHIPS, LOADING	55044	702
LOADING, SHIPS	55044	703
5HIPS. DESIGN	55044	704
DT <ign+ ships<="" td=""><td>55045</td><td>010</td></ign+>	55045	010
<b>55045</b>	55045	151
SCHMIDT+0.	55045	201
WITHE DE AL MARKEN AND ADOLPH A. H. FORKES,	55045	202
ANOTHER TWO DIESEL-ELECTRICAL PILOT BOATS IN		203
THE HAMMURG -487-09-F	55045	
COUTER IND HAFENA LOV 1957. 4 PP.	55045	251
THIS IS A DETAILED DESCRIPTION OF TWO IDENTICA	55045	501
L PILOT BOATS. THEY ARE 21 M LONG, BREADTH 5.	55045	502
2 4, DEPTH 2.75 M, CRAUGHT 2.35, 260 HP AT 180	55045	503
RIMIN, 10.7 KNOTS. SCHEVATIC DRAWINGS, PHOTO	55045	504
RIMIN, 13.7 KNO S. SCHELATTE OTARTRODY TOTAL	55045	505
GRAPHS AND TA-LES APE INCLUDED. SPECIAL ATTEN	55045	506
TION IS PAID TO PROPULSION SYSTEM PRODUCED BY	55045	507
THE AEG COMPANY.	55045	701
9CATE, DESIGN	55U45	702
DESIGN, DOATS	55C45	703
HCATS. PROPULSION SYSTEMS	55045	704
PROPULSION SYSTEMS. DOATS		010
55046	<b>25046</b>	با بد ت د مر -
5. 14. m . 4.4	55046	101
HARBOR AND SEA TUGS MICHEL AND W. TH. STRATM	55046	20:
	55046	201
ANN •=	55045	251
SCHIFF UND MAFEN. JAN 1956. 11 PP.	55046	50.
THIS IS A VERY DETAILED AND EXTENSIVE DESCRIPT	55046	501
ION OF THE TWO TUGS WHICH WERE THE FIRST ONES	55346	501
PRODUCTION OF THE A STREET HELICIPAL PROPULSION IN	55046	50
LANGE OF AND DERNAMAL DATA LENGTH 4807 NO PIN	55046	50
ARPE 4 27 U. SEPTH 2.9%. DUADUEL 3.40 UE 4444	55046 55046	50
THE AT 10 DEM. STODIACEMENT 341 TORS. MULL UP		5 C
TA AS TAKE THE ARTICLE CONTAINS MANT PERMIT	95046 3≈544	50
THE FUNCTION OF THE PURCH	35046	
R EQUIPMENT AND PROPULSION ARE DESCRIBED WITH	55046	50
K EQUIPMENT AND PROPOLUTOR THE SECOND	35046	51
SPECIAL CAPE.	55046	70
TUGE, DESIGN		

and the same of

		752 臺
GETTEN. 1880	22.046	702
1, 55, 230Pale 10 North St. 15	6,3046	70 s &
PROPRIECTON SYSTEMS, THOS	55040 , <del>a</del>	734.
55347 RUYNSKIU,0.4.	ンジン47 シンV47	010
^ m 1/2mo/2   ICE	55047 55047	101
SUPOSTRO INITA BI, AUG 1906, PP. 5-6	55047 55847	201
THES IS A CLECKIPTION OF AN ICLES, KING FERRY	55047 5504 <b>7</b>	251 501 ·
FOR MASSENGERS AND VEHICLES TRANSPORTATION IN	55047 55047	501 502
HARBORS. ITS NAZE IS KARONERIC AND THE DATA I	55047 55047	503
S AS FOLLOWS CLASS OF # P 4/1 S OF THE USSR R	55047	504
EGISTER, LENGTH 40M, REFAUTH 10M, DIPTH 4.2 M,	55047	50£
DRINGHT 2.5 M, DISPLACEMENT (WITH MONE) 516 T	55047	506
O's, LOAD CAPACITY 65 TONS (84 PASSENGERS). D	5504 <b>7</b>	507
IFAEL-FLYCTRIC PROPULSION, TWO PROPELLER ENGIN	55047	508
ES (FORWARD AND AFT) GIVE 312 KW AT 420 RPM.	55347	509
MANY DETAILS ARE GIVEN AND DRAWINGS ARE INCLUD	55047	ว์ไฮ "
ED. TRANSLATION OPTIONAL.	55 <b>.</b> 47	511
ICGHREAKER (AMONEREC	55647	761
KANONERGO ICENREAKED	55047	702
ICEBREAKERS, OFSIGM	55047	703
DECIGN, ICEBREAKERS	55047	704.
5504x	55048	010
ALONYMOUS	55048	101
↑ NEW ICEHREAKING STEAMER MAGGA DAN.=	5504º	201
MOBSKOJ FLOT. 17, JUL 1957, 29. 28-30	55048	251
A GETAILED DESCRIPTION OF THE STEAMER IS CIVEN	55048	501
. IT HAS BEEN HUILT IN AND FOR DENMARK. IT M	55043	502
EETS ICEBREAKING REQUIPEMENTS OF THE ENGLISH A	55048	503
LOYD AND OF THE FIARISH AL ICE CLASS (I.E. THE	55048	504
SKIN MUST BE OVER 1 IN. THICK). IT CAN CARRY	55048	505
36 PASSENGERS AND HENCE MEETS ALL SAFETY REQU	55048 55048	506 507
IREMENTS FOR PASSENGER SHIPS. DATA LENGTH 75 M. BREADTH 13.7 M. LOAD CAPACITY 62 500 CUBIC	55046 55048	507 508
FEET, SPEID 12 KNOTS. IT HAS SOME INTERESTIN	55048	509
G FEÄTURES AND EQUIPMENT. ITS COUR IS BRIGHT	55048	310
PED. IT HAS SOPHISTICATED NAVIGATION FOUIPME	55048	511
NT, TWO INDEPENDENT RADARS, AUTOMATIC SMOKE SI	55648	512
GNALIZATION SYSTEM. MANY PARTS OF EQUIPMENT A	55048	513
RF DOUBLED.	55048	514
ICTHREAKERS MAGGA CAN	55048	701
MAGGA DAN ICE-REAKER	55048	702
ICEEREAKERS, DESIGN	55048	703
DESIGN. ICEBREAKERS	55048	704
55049	55049	010
CHACHKOV,M.T.	55049	101
KPEÚMER,I.D.	55049	102
<pre><hip=uilding computations="" computers.="&lt;/pre" on=""></hip=uilding></pre>	55049	201
SUDOSTROENIE, 31, FEB 1965, PP. 79-83	55049	251
THIS IS AN EXTENSIVE AND DETAILED REVIEW OF A	55049	501
RECENT BOOK BY PEUNOV, M. N., BREGMAN, V. I.,	55049	502
MOSKALENKO, V. M., NAKHIMOVICH, E. M., PETROV,	55049 55049	503 507
E. JU, MOSHENSKIJ, N. L. AND AKSENOV, E. M.	55049 55049	504 505
THE BOOK APPEARED UNDER THE TITLE NAME AND WAS	55049 65049	505 504
EDITED BY REUNOV, M. M. IN THE PUBLISHING HOU	55049 55049	506 .
SE SUDOSTROENIE IN 1964. THE ACCOUNT INDICATE	55049 55049	507 508 <sub>+</sub>
S THAT THE BOOK IS MODERN, WELL WRITTEN, CONTAINS MANY EXAMPLES AND DEALS WITH IMPORTANT TOP	55049	509
ICS. TRANSLATION RECOMMENDED.	55049	510
COMPUTERS: USE	55049	701
COMMODERAL COL	22442	, 🗸 🗕 🧜

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Pinggayying, computing	4206	
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ENS,G.		
ICEHDEAKERS OF HIAMIR CAPACTTY ARE NELLED FO	2 * 0 2 0	20.
R FAR FAST AND IDRIH.=	<u>ي ر ر ر ر</u> ن	
MOPSKOJ FLOT, 25, FEB 1965, P. 44	<b>り</b> ちしこと	
THE INTERESTING PART OF THIS ARTICLE IS THAT I	55050	رِي رُبِي اللهِ
T GIVES SOME DATA OF A LEDUKOL (ICLUITARER) CL	57.030	ے 5 ر
ASS OF ICEGREAKERS THICH HAS APPEARED OFLY ON	55050	203
PHOTOGRAPHS IN SUPERTROPRIE JOURNAL. AS OF TH	55150	554
F PATT OF THIS ARTICLE, 6 SUCH ICTHREAKERS HAV	55U5U	505
E HEFN HUILT PROBABLY BY THE ADMIRALTEUSKIU SH	55050	500
IPYARO IN LENINGRAD. FURTHER CHIPS WILL WE BU	55050	) in
ILT. PRINCIPAL DATA LENGTH 67.63M, EREADTH M	55050 55050	٠, ٠
AX. 18.06 M. DISPLACEMENT 20% TORS, CAPACITY	55050 55050	۵ روز روز
ON AFT PROPELLERS 4800 HP, SPEED 14.8 KNOTS.		ال ب خ ج ج
DIESEL-ELECTRIC PROPULSION. THE ARTICLE WAS K	59630 4	210
	55050	5 ± ± ±
RITTEN BY A CREW MEMBER (ELECTROTICHANICIAN) WH	55050 13150	512
O SERVED ON LÉCOKOL I AND LEDOKOL 3. HE STATE	55050	513
S THAT THE LEDOKOL CLASS HAS NOT SUFFICIENT CA	55050	514
PACITY FOR EFFECTIVE ICE-REAKING OPERATIONS ES	55050	515
PECIALLY IN WINTER. HE SAYS THAT TWO CLASSES	55050	516
SHOULD BE CONSTRUCTED, ONE 5400 HP WHICH COULD	55050	517
BE USED IN HAPHORS DURING HINTER AND A 7200 H	9509C	510
P CLASS FOR REGULAR WINTER USE ON THE NORTHERN	9£006	こごう
STA WAY. THEN HE CRITICIZES SOME DESIGN HEAT	55850	920
URES OF THE LEDOKOL CLASS, PARTICULARLY THE FO	35050	521
RWARD PROPELLER. TRANSLATION RECOMMENDED.	55050	52∠
LEPOKOL CLASS	55050	701
ICEBREAKERS, OPERATION	55050	7 C 2
OPERATION, ICEBREAKERS	55050	703
55051	55051	010
TARSHIS:M.K.	55051	131
ICE LOADS SUPPORTED BY A SHIP.=	55051	201
RECHNOJ TRANSPORT, 16, DEC 1957, PP. 19-22	55051	251
THIS IS A RATHER DETAILED STUDY WHICH ANALYSES	55051	501
FORCE ACTION ON A SHIP DURING AT IMPACT LOADS	55331	504
GENERATED BY ICE FLOES OR BY COMPACT FLAT ICE	55∪51	503
FIELD AND B) COMPRESSION LOADS. BOTH CASES A	55051	504
RE EXPLAINED AND SOLVED IN DETAIL. ENERGY BAL	55351	505
ANCE METHODS ARE USED THROUGHOUT. A NUMERICAL	55051	30°
EXAMPLE IS INCLUDED. TRANSLATION RECOMMENDED	55051	507
EXAMPLE 10 THEODED THANGER TON RECOMMENDED	55051	508
HULL OFSIGN	55051	701
DESIGN - HULL	55051	702
ICEBREAKERS, LOADING	55051	703
LOADING, ICEAREAKERS	55051	704
55052	55051 55052	7.5
MAKSIMADZHI,A.	55052	201 201 102
NOVIKOV+O+	55052 55052	1 V 4
SOKOLOVALA	55052	103
ON THICKNESS ADDITIONS FOR WEAR AND CORROSIO	55052	201
N IN DESIGN OF CARCO SHIP HULLS OF LOW-ALLOY S	55052	202
TEFL.=	55052	203
MOPSKOJ FLOT, 19, MAR 1959, PP. 12-16	55352	25]
THE TITLE TOPIC IS CONSIDERED FROM THE VIEWPOI	55052	501
N' OF OVERALL ECONOMY OF THE SHIP. COMPARISON	55052	504
S OF EQUALLY STRONG SHIPS VADE OF A MILD STEEL	55052	501
AND OF A 50 KSI STEEL, RESPECTIVELY, ARE USED	55052	504

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フロン・ストラ カー・スープ とういうていがく はらしん としょう さいしょく 神 むげしょ	ئے بیٹ کے کہ ک	غ <b>ي</b> و د
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ત્રા તાલું તો પંચાલતા કે પ્રાપ્ત કર્યા છે. જે માર્ગ	05.05.2	J 🕽 8
	یا دار د با دار د	751
To be a construction of the construction of th	25022	702
	55452	705
THELE, LOUGHLOV		734
LO ALLOY STIELS	きっしっと	
HULL SHEATH	55052	705
SEINTH, HULL	55052	706
44,744	55,53	010 101 102 201
BUTCTV.A.	25025	101
RYVLIN, A.	50000	104
ON CALCULATIONS OF ICCHREAKER RESISTANCE IN	ანტ <b>ნ</b>	201
FINELY GROKIN ICE.=		252
	55053	251
MORKKOU FLOT, 21, AUG 1961, PP. 36-28	55053	501
THE TERM FINELY HROKEN ICE POFERS TO ICE COVER		
AGE CONSISTING OF FLOES SWALLER THAM 20 METERS	55053	502
IN HORIZOMTAL DIRECTION. ARCTIC ICHBREAKERS	55053	503
DO NOT HREAK SUCH ICE BUT ONLY PUSH IT APART.	55053	504
EMPIRICAL FORMULAT HAME HOLN DEVOLOPED FOR TU	55053	505
O DEMSITIES OF FIMELY PROKEN ICE. THEY GIVE A	55053	506
PTRISTANT COFFFICIENT AND SHOW REASONABLE AGR	55053	507
FEMERIT WITH ACTUAL MEASUREMENTS ON ICEBREAKERS	55053	508
	55053	509
• TRANSLATION RECOMMENDED.	55\53	701
ICHHPEAKLES, MODELS		702
VODELS, UCTAREAKERS	55653	
ICE CHARACTERISTICS	50083	703
REGISTANCE, ICE	55055	704
ICE, RESISTANCE	55053	70€
55054	55054	010
LAVROV.V.	55054	101
POZNUAK • I •	55054	102 201
PRINCIPLES OF ICE FORMATION IN RESERVOIRS OF	55054	201
	55054	202
COOLING WATER.=	ეენე <del>ა</del> ეენ54	251
MORKKOJ FLOT, 23, JUN 1963, PP. 21-22	59054	501
THIS IS A DETAILED DESCRIPTION OF THE TITLE TO		
PIC WITH SPECIAL ATTENTION TO SHIPS NAVIGATING	55054	504
IN ICE. SOME THERMODYNAMICAL CONSIDERATIONS	5505+	503
APE INCLUDED, AND MEASURES FOR PREVENTICA ARE	55054	504
GIVEN QUANTITATIVELY. TRANSLATION OPTIONAL.	55054	505
ICE CHARÁCTERISTICS	55054	701
ICF-GOING SHIPS, DESIGN	55054	702
DECIGN, ICE-GOING SHIPS	55054	703
	55055	010
55055	55055	101
SUPFUN, L.A.		201
A METHOD FOR DESIGN OF ELECTRO-CHEMICAL COPR	55055	
OSION PROTECTION OF SUBMERGED PARTS OF SHIP HU	55055	202
LL.S.=	55055	203
SUDOSTROENIE, 27, APR 1961, PP. 5-9	55055	251
THIS IS A DETAILED ARTICLE ON THE TITLE TOPIC.	55055	501
IT GIVES THE ENTIRE COMPUTATION SCHELE FOR E	55055	202
LECTRO-CHEMICAL PROTECTION OF HULLS TH REGAR	55055	503
ENGINEERING PROFESSION OF HOUSE THE TOWN	55055	504
O TO USE OF SPECIAL COATINGS AND PAINTS WHICH	55055	505
CONTRIBUTE FAMORABLY TO UNIFORM POTENTIAL DIST		506
RIBUTION. THE PROCEDURE IS OUTLINED AND EXPLA	55055	
INFO IN ALL DETAIL, AND AN EXAMPLE IS WORKED O	55055	507
DT. CHEMICAL COMPOSITION: TREATMENT AND PROPE	55055	508
RTIES OF PROTECTIVE PAINTS ARE ALSO INCLUDED.	55000	509
TRANSLATION OPTIONAL.	55055	510
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	: 50%:	70±
PAINTS	F % U = 3	755
CONTINES	2	7 .
5tq56	2000	- 13
EVTEÇV,V.P.	25025	* * *
MAKEIMOV.V.A.	99056	112
ROME TRENDS IN USE OF COMPUTERS IN SHIPHWILD	55056	301
ING.=	55056	203
SUNOSTROENIE, 30, FÜL 1964, DP. 84-65	55656	251
THIS IS A REVIEW ARTICLE ON THE TITLE TOPIC AN	55656	: 01
D IS HASED ON FOUR LINGUISM AND ONL CERMAN REFE	シフレンジ	ے 2 ر
RF/C=.	ენ () ენ	500
COMPUTERS, USE	550 <b>5</b> 6	701
55057	55357	010
MOGILFVICH.V.I.	55057	101
KASKOV.S.I.	55057	104
A WHALING VESSEL FOR THE ANTARCTIC.	55057	201
SUDDSTROENIE, 23, FEE 1957, PP. 8-14	55057	251
THIS IS AN EXTENSIVE ARTICLE ON A NEW WHALING	55057	501
SHIP. HISTORY OF WHALING INDUSTRY AND SOME CO	55057	932
MPARABLE VESSELS IN USE THROUGHOUT THE WORLD A	55057	503
RE MENTIONED. TECHNICAL DATA MAXIMUM LENGTH	55057	304
218 M, MAX. HEFADTH 28 M, DEPTH 19M, CRAUGHT 1	55057	505
O M, MATER DISPLACEMENT WITH FULL LOAD 43,800	55057	536
Take. Two difficulting of 7500 HP CA	55057	507
PACITY, SPETS 16 KINTS. THE STRUCTURE IS WELD	55057	50a
ED. MILT CARHON STEEL WAS USED FOR THICKNESSES	55057	20°2
UP TO 14 MM (0.55 IN) AND A MANGANESE CARRON	55057	510
STEEL FOR HICHT? THICKNESSES. NO ICE STRENGTH	55057	511
ENING IS MENTIONED. DETAILED DRAWINGS OF CROS	55057	515
S-RECTION AND SENERAL SCHEMES ARE INCLUDED.	55057	513
ICE-GOING, SHIPS	55057	701
SHIPS, ICE-GOING	55357	732
55058	5505H	010
SHAROV, JA.F.	55028	- ^ -
IMPACT OF THE ROTTOM OF A SHIP WITH AN APPRO	55038	201
ACHING MAVE.	55358	402
SUDOSTROENIE, 24, APR 1953, PP. 5-9	55058	251
	55058 55058	501
THIR IS AN INTERESTING AND DETAILED ARTICLE WH ICH DESCRIPES INPACT OF AN INFINITE SHEET ON E	55058	502
		504
LARTIC FOUNDATION WITH CALM MATER SURFACE. IT	55 <b>5</b> 56	304
IS ASSUMED THAT THE SUPPORTED SHEET FALLS ONT	550±8	
O THE WATER WITH VELOCITY VO AND THEN THE RIGI	<b>55</b> 008	ာပွဲခ
D BASE OF THE FLASTIC FOUNDATION DECELERATES U	55058	505
NIFORMLY. THE FOUATION OF MOTION IS DERIVED A	55058	507
NO COLVED. RESULTS COMPARÉ FAVORABLY WITH EXP	55056	504
ERIMENTAL FIELD O-SERVATION. FOR A MORE DETAIL	55058	202
LED ACCOUNT, SEE APPLIED MECH. REV 14, 1961,	55358	5 7 6
P. 77, REF. 566.	55058 55050	500 512 70
SHIPS. DESIGN	55058	10-
DESIGN, SHIPS	55008	702 703 703
SHIPS, LOADING	55051	
LOADING. SHIPS	55058	/ J ==
55059	55,59	010
BARON • V • A •	55059	<u> </u>
GLOTOV, Ju.G.	シグレスタ	1043
A SEA ICEFRIAKING FERRY.=	55059	201 -

•		
		A 2 .
		4374
	5 シャンラ	- 7,2
	: 50Bs	50%
the second control of	170.9	5 4 -
		•
	50 43 9	F 5 4
	£ 0.5	# শু স্
	1. 2 4 5 16	
and the are arised as sold. In the first of the second	* % 🗸 📑	3 î 7
THE THE CONTRACT OF THE STATE OF A STATE OF THE STATE OF	2 025	504
- 10 - 2 10 mg.		50%
	55059	203
\$0750th KUNA (248771)8	55459	70.
SYST MS. ICERSUACIR	აპ <b>ა</b> ნა	ファラ
En030	5,000	, , ,
	55.260	÷5.
. SIMPLIFIES METHOS FOR COMPATION OF WIND	55060	ラヘギ
MHLOCITY HHICH A SHIP CAN OFFISTAL	55060	565
		2 4
SWOOSTOOENIE, 34, FRB 105., PP. 1-5	55040	251
THIS IS A DETAILED EXPLANATION OF A SIMPLIFIED	5506c	201
APPROACH TO COVENTATION OF THISHOURS OF HISAGERS	52640	562
IN CHILL ALTON AND OF THE PROMITE OF ANDROOM THE	25060	503
WINTERCACT. THE METHOR IS A GLOUD ON CO PARISO	55050	504 '
A OF A DIAGRAM OF THE INCLIDATION MOMONS WITH	55060	505
		_
A DIAGRAM OF MOMENTS OF STATIC STABLEITY. CRA	55060	506
PHO, FÖYMULMÖ, AMD YN ILLUSTRHTIME EXIMPLES AR	55060	507
E GIMFN.	5560	528
SHIPS, DESIGN	2225	701
Protent Smips	సక్షింద	702
SHIPS, LOADING	55060	703
		_
LOADING: SHIPS	55030	704
55061	55061	010
DEVNIN, S. I.	55061	101
RAKHMANKULOV, I. M.	55061	102
RATIONAL APPANGINENT OF A RUDDER IN A STREAM	55061	201
OF A HEAVILY LOADED PROPELLER.=	55061	202
SUBOSTROENIE, 27, UUL 1961, PP. 13-15		_
	55061	251
THIR IS A SHORT BUT DETAILED THEORETICAL STUDY	55061	501
ON THE TITLE TOPIC. IT IS CONCLUDED THAT THE	55061	502
RUDDER SHOULD HE LOCATED AS CLOSELY AS POSSIB	55061	503
LE TO THE PROPELLER. A METHOD FOR EVALUATION	55061	504
OF THE LIFTING FORCE OF A RUDDER IS OUTLINED I	55061	505
M DETAIL.	55061	506
SHIPS, RUDDERS	55061	701
% DDERS, SHIPS	55561	702
PROBELLERS	55031	703
55052		
	55062	010
GULIEV, JU. V.	55062	101
FXPFRIMENTAL INVESTIGATION OF WATER RESISTAN	55062	201
CE DURING ROLL OF A SHIP.=	55062	202
SUNDSTROINIE, 23, JUN 1957, PP. 9-11	55062	251
THIS IS HOWH AN EXPERIMENTAL AND THEORETICAL I	55062	501
AVECTIGATION ON THE TITLE SUBJECT. THE LAN OF	55062	502
ATER RESISTANCE AS FUNCTION OF ANGULAR VELOC	55262	503 ·
ITY OF ROLL IS EXPRESSIO IN FORM OF A GUADRATI	55062	504
C SINOMINAL. A PROCEDURE IS OUTLINED WHICH ENA	55062	505
HLER TO COMPUTE THE TOTAL RESISTANCE NOMENT OF	55062	506
A KIMADING SHIP DUPING THE ROLLING MOTION IN	55062	507
CALMALATER. THE METHOD SHOUS PEASONABLE AGREE	55082	5 Č d
MENT WITH EXPERIMENTS AND IS APPLICABLE TO A V	55062	509
APIETM OF CROSS-SECTIONS.	55062	510
REGISTANCE, FLUID DYNAMICS	55062	701 /
		·

からくのからなるところのはころのできるからいと

24005	24665	010
ARISTOV.V.S.	24005	101
KUD INOV • E • D •	24005	102
SERBIN, N. G.	24605	103
WELDABILITY INVESTIGATION OF THERMALLY-STREN	24005	201
GTHENED CARBON STEEL 20 C.=	24005	202
SUDOSTROENIE, 29, JAN 1963, PP. 51-54	24005	251
THIS ARTICLE DESCRIBES TESTS WHICH ARE TO CHAR	24005	501
ACTERIZE WELDABILITY OF THE MENTIONED SIEEL.	24005	502
THE THERMALLY-STRENGTHENED CARBON STEEL 20 C I	24005	503
S CONSIDERED AS A SUBSTITUTE FOR MORE EXPENSIV	24005	504
	24005	
E LOW-ALLOY STEELS WITH YIELD LIMIT LARGER THA		505
N 35 KG/MM2 (I.E. 50KSI). THE STEEL ITSELF IS	24005	506
NOT DESCRIBED.	24005	507
BOTH AUTOMATIC AND MANUAL WELDING WAS USED ON	24005	508
PLATES 1G AND 32 MM (I.E. 0.4 AND 1.25 IN.).	24005	509
ONLY EMPIRICAL TESTING METHODS ARE USED BEND!	24005	510
NG TESTS OF SPECIMENS WITH WELDS AND SURFACE W	24005	511
ELD-BEADS, IMPACT ROUND NOTCH TESTS, DROP-WEIG	24005	512
HT TESTS ON 4 WELDED REAMS. IN ADDITION, LIMI	24005	513
TED METALLOGRAPHIC STUDIES OF THE WELD WERE MA	24005	514
DE. THE RESULTS SHOW THAT THE TESTED WELDMENT	24005	515
S ARE SAFE AGAINST BRITTLE FRACTURE AT -25 DEG	24005	516
REES C AND THAT THE ORIGINAL STRENGTHENING WAS	24005	517
NOT IMPAIRED BY SUBSEQUENT WELDING.	24005	518
HOWEVER, SUCH CONCLUSIONS ARE NOT FULLY JUSTIF	24005	519
IED SINCE THE METHODS USED ARE OBSOLETE AND UN	24005	520
RELIABLE.	24005	521
STEELS. CARBON	24005	701
CARBON STEELS	24005	702
STEEL. ECONOMY	24005	703
ECONOMY, STEEL	24005	704
STEELS, HEAT TREATED	24005	705
HEAT TREATED STEELS	24005	706
METALS, WELDING	24005	707
WELDING, METALS	24005	708
24006	24006	010
KACMAN,F.M.	24006	101
MATERIAL SELECTION FOR FABRICATION OF PROPEL	24006	201
LER SCREWS OF SEA SHIPS.=	24006	202
		251
SUDOSTROENIE, 24, MAR 1958, PP. 50-53	24006	2
THIS IS A DETAILED ARTICLE DEALING WITH MATERI	24006	501
ALS WHICH COULD REPLACE THE DEFICIENT BRASS AS	24006	502
A MATERIAL FOR PROPELLERS. CARBON STEELS. ST	24006	503
AINLESS STEELS, AND CAST IRONS ARE CONSIDERED	24006	504
AND COMPARED FROM THE CORROSION AND CAVITATION	24006	505
VIEWPOINT.	24006	506
MATERIALS, SELECTION	24006	701
SELECTION, MATERIALS	24006	702
SHIPS, PROPELLERS	24006	703
PROPELLERS, SHIPS	24006	704
24007	24007	010
MAKSIMADZHI•A•I•	24007	101
NOVIKOV.O.A.	24007	102
SOKOLOV2L.G.	24007	103
TECHNICAL AND ECONOMICAL EFFICIENCY OF LOW-A	24007	201
LLOY STEELS ON DRY CARGO SHIPS.=	24007	202
SUDOSTROENIE, 22, OCT 1956, PP. 27-30	24007	251
THIS ARTICLE COMPARES ECONOMICAL AND TECHNICAL	24007	501
FACTORS OF DRY CARGO SHIPS WHICH HAVE 1000, 3	24007	502

是一个人,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,也可以 第一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们

FLUID DYNAMICS. RESISTANCE	55968	700
SHIPS, DESIGN	55062	7-,1
DECTOR: SHIPS	55052	154
55063	55063	555
ANONYMOUS.	55063	101
A MODEL OF THE NUCLEAR ICEBREAKER LENIN.=	55063	201
SUDOSTROENIE, 24, APR 1958, P. 72	55063	251
THIS IS A NOTE ON A 1 TO 50 SCALED MODEL OF TH	55063	501
E NUCLEAR ICEBREAKER WHICH WAS DISPLAYED AT TH	55063	502
E WORLD FAIR IN ARUSSELS IN 1958. OHVIČUSLY.	55063	5C3
IT WAS A VERY SOPHISTICATED AND LARGE MODEL. 9	55063	504
FT. LONG AND CONSISTING OF 15,000 JOINTS AND	55063	505
OF 50,000 PARTS. 30 PEOPLE, INCLUDING SOME NO	55063	506
TED ARTISTS, TOOK PART IN CONSTRUCTION. TWO	55063	507
PHO TOGRAPHS ARE SHOWN.	55063	508
ICEBREAKER LENIN	55063	701
LENIN ICEPREAKER	55063	702
ICEBREAKERS, MODELS	55063	703
MODELS. ICEBREAKERS	55063	704
55064	55064	010
VOEVODIN.N.F.	55064	101
A GRAPHU-ANALYTICAL METHOD FOR DETERMINATION	55064	201
OF THE NECESSARY BALLAST AND OF INCREMENTS IN	55064	202
STABILITY PARAMETERS OF A SHIP.=	55064	203
SUDOSTROENIE, 27, MAY 1961, PP. 11-14	55064	251
THIS IS A DETAILED THEORETICAL STUDY ON THE TI	55064	501
TLE TOPIC. IT DEALS WITH DYNAMICAL STABILITY,	55064	502
INCLINATION MOMENTS IN ROLL, STATIC STABILITY	55064	503
AND WITH METACENTRICAL DEPTH. TRANSLATION OP	55064	504
TIONAL.	55064	505
SHIPS. STABILITY	55064	701
STABILITY. SHIPS	55064	702

	. 7	A SECULAR PROPERTY.
S. IRAUV.V.I.	س ما ما د ص	***
PREDICTIONS OF ICEUREAKER VELOCITY IN UNDWOK	225 <b>6</b> 2	A = A
THE ICE THE DREAMEN TERRET IN GROUNDS		494
PROBLEMY ARKTIKI I ANTARKTIKI 5. 1960. P. 27-3	ر د اد د د	غۇن <b>د</b> ىن
C CONTRACTOR & CONTRACTOR SA TAGA LA SIMA	55065	40.
THIS IS A SHORT DESCRIPTION OF ALL APPROXIMATIV	55000	JC1
E METHOD OF VELOCITY DETERMINATION OF AN ICCER	55055	コレムコルと
EAKER IN SOLID ICE. IT IS NECESSARY TO KNOW I	55-65 55-65	502 303
CE THICKNESS AND ITS ULTIMATE BENDING STRENGTH	55065	303 304
. THE METHOD MAY HE ALSO USED FOR BROKEN ICE.	55065	504
WHEN THE ARMSTTV SYSSENS IN AND WHEN NO THE D	22052 81048	505
WHEN THE DENSITY EXCEEDS 10 AND WHEN NO ICE P RESSURE EFFECTS ARE INVOLVED. TRANSLATION OPT	51065 55065 55065 55065	506 807
IONAL.	20000	507
ICE CONDITIONS. FORECAST	22002	506
FORECAST, ICE CONDITIONS	22062	701
ICEBREAKERS: MOTION	55065	702
	55065	
MOTION. ICEBREAKERS	55665	704
REGISTANCE, ICE	55665	705
ICE RESISTANCE	55065	706
55066 KHEJSIN•D•E•	55066	010
DETERMINATION OF LUADS WHICH ACT ON SHIP HUL	55066	101
L DURING ICE COMPRESSION.=	55066	261
PROBLEMY ARKTIKI I ANTARKTIKI 7, 1961, PP. 25-	25066	202
PRODEEMI ARRIIRI I ANIARRIIRI 19 19019 PP. 23-	55066 55066	251
31 This is an abbenyingte but beachnah v butai in	22006	494
THIS IS AN APPROXIMATE BUT REASONABLY DETAILED	55066 55066	201
ACCOUNT OF THE TITLE TOPIC. TWO PROBLEMS ARE		
CONSIDERED (1) DETERMINATION OF DESIGN LOADS	55066	202
FOR ICEBREAKERS AND ICE-GOING SHIPS WITH TILT	55066	504
ED SIDES AND (2) DETERMINATION OF DESIGN LOADS	55066	505 505
FOR CARGO SHIPS WITH VERTICAL SIDES. IN BOTH	55066	506
CASES, THE FRACTURE LOAD OF ICE IS COMPUTED.	55066 55066	201
FORMULAE ARE DERIVED AND THEIR USE IS ILLUSTR	55066	50,6
ATED ON EXAMPLES FROM REAL SHIPS. TRANSLATION		509
RECOMMENDED.	55066	516
HULL. DESIGN	55066	701
DEGIGN. HULL	55066	702
ICEBREAKERS, DESIGN	55066	703
DESIGN, ICCOREAKERS	95066	704
ICE-GOING SHIPS, DESIGN	55066	705
DUSIGN. ICE-GOING SHIPS	55066	706
ICEBREAKING, THEORY	55066	707
THEORY. ICEBREAKING	55066	703
55067	55067	e e e
KHEJSIN,D.E.	55067	101
CONTACT PRESSURES RESULTING FROM IMPACT OF T	55067	201
HE ICE KNIFE ON ICE.=	55067	202
PRODLEMY ARKTIKI I ANTARKTIKI 8, 1961, P. 67-7	55067	251
4 Tura to a autation theoretical anticlé an the	55067 55047	252 501
THIS IS A DETAILED THEORETICAL ARTICLE ON THE	55067	501
TITLE TOPIC. THE METHOD DERIVED PERMITS DETER	55067 5507	502
MINATION OF CONTACT PRESSURES IN THE ICE KNIFE	55067	503
CAUSED BY IMPACT AGAINST AN INFINITE ICE FIEL	55067	594

THE PROPERTY OF THE PARTY OF TH

36232 JE 23

STEEL WATER

The state of the s	-	<b>28</b>
		<u> </u>
The control of the co		
The Market of Market of the Control	<u>.</u> • . •	
MONTH CONTRACTOR TO THE CONTRACTOR OF THE CONTRA	,	<b>**</b>
LY THE AND LAIN A HON LOS HAD THE LOS OF THE PARTY OF THE	, , , t , , , , , , , , , , , , , , , ,	
HIMMER INC. The Park Who has been been to be a	ا بر جا بو س	
PUTE ACCILIANTANIAN AND THE STREET OF THE POTENTIAL OF THE		
UCH ANTHOT HAVE PARTED OF THE CONTRACTOR CONTRACTOR		
OF SUPPORTS AND LUMBBARENTS OF I PACT-SERVICEY	25.007	
E DEVICES. TRANSLATION NECOVINERLES	2500; 25007	
	50007	
ICEBRIANING, TOLORY	55 06 /	
THEORY, ICEORGANING	55057	
ICEBREAKERS, LESIGN		
DESIGN TOURERERS	95 0 5 <u>7</u>	
ICEBREAKERS. MOTION	35067	
MOTION. ILIBREAKERS	35.57	·
5506à	55460	
TPAVAKIJ•E•I•	อร์บอส	
LOSS IN OPERATION TIME OF ICELALAKERS DUE TO	53000	401 <b>E</b>
MAINTENANCE AND A METHOU OF ITS DETERMINATION	၁၁ပ5၁	<b>5</b>
<b>√</b> =	22008	د تا ا
PROBLEMY ARKTIRI I ANTARKIIKI 14, 1003, P. 30-	2,000	47 - ∰
39	25000	ا ال
-THIS IS A RATHER DETAILED STODY ON LCCNOMY OF	59068	しここ 簀
ICEBREAKER OPERATION. MANY USEFUL TABLES ARE	きちししゅ	ا الله الله
GIVEN AND AN EXAMPLE IS SHOWN, REPERRING TO IC	೨೨೦೮೮	してい 量
EBREAKER SIMIR. TRANSLATION CHILDRAL.	55058	ノウー 警
ICEBREAKERS, OPERATION	55068	/ J _ 🚆
OPERATION. ICEBREAKERS	55068	702
55069	32009	CLU B
- KOROTKIN•JA•I•	55069	
MAKSIMADZHI.A.I.	55069	
STRENGTH COMPUTATION PROCEDURE OF SEA CARGO	55669	201
SHIPS.=	15069	202
TRUDY CON, 1.1. MORSKOGO FLOTA 17, 1955, P. 1-1	35069	231
28	55069	4-6
THIR IS AN EXTENSIVE DESCRIPTION OF THE RUSSIA	5:069	_5i
N RECOMMENSED PRACTICE FOR SISIGN OF SEA CARGO	55.65	000
SHIPS. HEADING OF MAIN PARTS READ AS FOLLOWS	55469	303 E
DETERMINATION OF BENDING MONUNTS AND OF SHEA		55-
DEFERMINATION OF BENDING MODERNS MAN OF SHEAR	55069 55069	202
RING FORCES DUE TO GENERAL GENERAL OF A Shift	35065	2 C S
EVERIFICATION OF THE GENERAL STRENGTH OF THE S	55069	A D D D D D D D D D D D D D D D D D D D
MIP AND SUMMATION OF STRESSES. COMPUTATION OF	99069 9 <b>5</b> 0 <b>5</b> 9	201
LOCAL STRENSTH OF DRY CARGO SHIPS. COMPUTATE		200
ON OF LOCAL STRENGTH OF THREE A TOTAL OF 2	35669	
BEPARAGRAPHST 55 TABLES AND 31 REFERENCES HAL	55069	3 - 0
INCLUDED. NOTE BELAUSE OF UNUSUAL LINGTH OF	55669	
THE ARTICLE, ONLY THE TABLE OF CONTENTS, INTRO	55069	
DUCTION: LIST OF TAULES AND REFERENCES WERE CO	25069	513
PICO.	55669	274
SHIPS, DESIGN	55009	701
DEGIGN, SHIPS	55609	702
CÁRGO SHIRS. DESIGN	<b>နှစ်ခု</b>	7,5
DÉCION. CARGO SHIPS	55069	704
TANKERS. DESIGN	55069	700 🖥
- Beaign Tankers	-25009	700
SAIDS. SPECIFICATIONS	55069	707
SPECIFICATIONS, SHIPS	33069	700
5507	55 v 7 v	(L)
NOSIJOLOMO	25070	101
MALEYPACT OF A SHIP ON A FLOTA	53.70	201
TRUDY LENINGRAD KORAULISTR. INST. 26. 1962. F.	25073	251
TO SECURE AND AND AND ADDRESS OF AN OLD AND ADDRESS OF A DESCRIPTION OF A		

1.6 شار د 5 3 47 3Qa 314 International Property 12.7. 7:1 CPY . Lare 7:2 -55070 IL BEENNE TO THE TIME MATERIAL CONTRACTOR Dansen Lagrage 1 1 IC DYLAK P KANSIN.= 500/1 SCHIPPLANT OF MIN 2. . . . 1900 . P. -0..7 THE TO A COMPLET MESON PRIOR OF THE TIME IC infloked will about the Manager is 1505. Brince 5,671 PAL FATH L COTO INTO E POLODIN ZŠODY NO DZATN 12.61 He Cambrill A. Turne Clarence . B. 10 21. ione, 5 % 50 % + 11 +0 (P) The Antice. FreES Time into ofknotinge, Film maderically systems A Re Acres There I'm And IT Contains hary charing :07 68 AND PICTURES. IMPRISERTION CHITOMAL. ICLEREAKIN KRASIN 70± KRISIN ICINSIAKLE ICIBADAKERS, GODERNIZATION MODERNIZATION, ICLERLAKING ICEBREAKERS, CONSTRUCTION, COMPTRUCTION, ICINRUMENTIRS ICIEREAKTINS, PROPULSION SYSTEMS PROPULSION SYSTEMS, ICERREAKERS ICE-REAK, RS. PULLY EDULPMENT POHER ENDIPHENT: ICEDREAKENS 5-072 .-.. ... A 9 . . . THE ACTION OF PITCHING EQUIPMENT OF ICEBREAK Unimproted Semant meditalisms debs 52, 1958, P. 251 -262 THIS IS A DETAILLU ARTICLE " TO DESCRIES THE 20I HISTORY DE DEVELOPMENT AND EXPEDIENCE PROTEUS E OF PITCHING OUTPALLY ON ICCUREAKERS MISCHING 50s (1952) BMS-CRN (1935/56) -- - - - - - Libruchs (1957). . 504 MAIN TECH ICAL DATA OF THOSE THALL ICLERCAKER S ARE LISTED. ALSO, ALCOLIS OF MODEL ILSTS AR REVIEWED. INFLUENCE ON CREW AND FUTURE PLAN ARE MENTIONED. MR EXTENSIVE DISCUSSION FULL 50° TRANSLATION RECOMMENDED. 701 IC: PEAKERS, CONSTRUCTION COMSTRUCTION . ICERKEAKERS ICUBREANÚM EÍSHUCHS EIREUCHS ICHHPMAKUR 

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	TOPES, MALLEY LANGE LANG	. ~	*
		and the	. •
	55073 <u> </u>	e as a second	• •
	machine un ste		معارب مد
	ON COMPOSATION OF LOCAL COMPANY OF THE COMPANY OF T		2.4
	TS OF SHIPS.=		
	SCHIFF UND HAPEN, JAN 1967, 2. 11-4.	\$ J 4 7 5	4/-
	THIS IS A SUMMARY OF A" LOVING LONDING THE	v>.7:	• • •
	D FOR THE GERMAN LLOYD AT THE UNIVERSITY OF THE	55.75	: ::::::::::::::::::::::::::::::::::::
	MAURGAY IT PROVIDES A CETAILLY DESCRIPTION OF	55 VT 2	مان کا مان مان کا مان
	A BECOMMENTED PROCEDURE FOR EVALUATION OF LONG	25.07.2 25.07.2	
	ITUDINAL MENCING ACKLATS OF SMIFS FOR MIN COM		، ر <b>ن</b>
	INATION OF LOAD AND DALAST DISTRIBUTION. MARTY	3.013	٠ ـ د د
	GRAPHS AND TABLES SIMPLIFY THE PROCEDURE AND	シングン	, ,,,
	MAKE IT LASY FOR THE DESIGNER.	ランジャン 第章とアロ	10 20 20
	SHIPS. Justian	52013	ت بات مراد محال م
	DECIGN, SHIPS	25073 25073	. U = 1 2 = 2 2 = 2
	MULL. DESIGN		ا کے ا اُ کے آ
	DESIGN HULL	55075 55075	شان : د رد د ا
	55074	· · · · ·	
	KONDRIKOV•C•V•	55074	ا يا يا
	· ·	55574 5577	*
	CHETYRKINANOVO	55074	ر بر نوان میں در بر در
	USE OF STATISTICAL MITHUDS FOR SHAP STREAGTH	35u7+	211
	EVALUATION MASES ON LAPERSHIPS ATAL RESULTS.=	55674	202
	TRUDY C.N.I.I. MORSKOGO FLOTA 41, 1962, P. 3-2	2.414	م م <u>گ</u>
5	THE TAX TO AT STRUCTURE TO TAX STRUCTURE OF THE BUILDING TO A	223/4	۵- ۵
	THIS IS ADDESCRIPTION OF EXPENSIONAL WHICH WELK	555/4	ئارىد ئارىد
	E PERFORMED ON THE TANKER INZHENER A. PUSTUSHR	204 fee	يد ي د
m, e	THE BURING WAVIGATION OR HEAVY SEAS. THE SHIP	53074	. j
	18 CONSIDERED AS A STATIONARY DYNAMIC SYSTLM W	55074	و ټو
	HICH IS SUBJECTED TO A RANDON INFLUENCE OF THE	5507+	<b>၁</b> ६६
	WAVE PROFILE AT A POINT OF SEA SURFACE. THIS	55674	506
	INPUT (EXCITATION) PROCESS IS CONSIDERED STAT	55074	507
	IONARY AND ERGODIC. THE OUTPUT (RESPONSE) IS	55074	506
	"ALSO" STATIONARY AND LAGODIC AND REPRESENTS THE	5:074	
	TIME CHANGE OF THE BENDING MOMENT IN A CROSS-	きぎして4	
	SECTION OF THE SHIP. ALL DETAILS OF THE EXPER	• • • •	£
	IMENTAL PROGRAM. PROCESSING OF RESULTS AND THE		512
	IR ANALYSIS AND OTHER FLATURES OF THE PROJECT		
	ARZ DESCRIBED. TRANSLATION OPTIONAL.	55074	514
	STATISTICAL ANALYSIS	55074	
	MATHEMATICAL METHODS	55074	702
	METHODS, MATHEMATICAL	55074	
	SHIPS, DESIGN	55074	704
	DESIGN. SHIPS	55074	
	SHIPS, LOADING	55074	
	LOADING, SHIPS	550/4	
	SHIPS. TESTING	35.74	
	TESTING. SHIPS	55.74	719
	55075	25075 25075	
	MAKSIMADZnI.A.I.	55075	101
	ON STANDARDIZATION OF STRENGTH OF LONGITUDIN	23075	
	AL BILGE CONNECTIONS OF CARGO SHIPS WITH DOUBL		
	E-bottom.=	55073	
	TRUDY C.N.I.I. MORSKOGO FLOTA 41, 1962, P. 43-		
	66	52075	
	THIS IS A VERY DETAILED ANALYSIS OF STRUCTURAL	55075 55075	
	PROBLEMS CONNECTED WITH LONGITUDINAL AND TRAN	5507p	
	SVERSE BILGE STRUCTURES. STRESSLS ACTING ON C	53075	
	SATEST STERE STRUCTOURS. STRESSES MOUTHS ON C		200

761 70 £ 3m188, 0%\_CINTATION CHITCHTTONS CARLO SIMPS 3. 270 L. TYLKEROVO Will a tempero beneals being the or bear 23-Lillo when a min returns TRUNY CONOTOTO HOPSKULU MUCIA 429 19629 5.5 . Bidge of Presidence Characterists AMORET CONTRACTOR OF THE CONTRACTOR OF THE STITUTE OF THE SENTILLE OF PUBSICILITIES OF P د٥٤ RACTICAL USL OF PROBABILITY THOUSY OR OF MATE EPARTICAL STATILTICS IN EVALUATION OF SHIP STRE ECE IN PARTICULAR, PRIGURICY UPLOTER OF THE WINDOW HEHIVIOR OF MAVES ARE STUDIED AND VARI OUR DISTRIBUTIONS ARE EVALUATED AS FUNCTIONS OF ි බීට් අ F WIND VELOCITY. THEM EXEQUENCY MELPONSE FUNC TIONS OF SOME SHIPS ARE SHUWN, HUT WOT LEWIVED 550/6 FOR MORE DETAILS SEE HER. BOCAL. TRANSLATI ON OPTIONAL. D2016 コンム STATISTICAL ANALYSIS MATHEMATICAL METHOUS METHODS, NATHEMATICAL SHIPS, DESIGN DERIGN. SHIPS SHIPS. LOADING LOADING, SHIPS SHIPS, TESTING TERTING, SHIPS .V.L.AVOVACDOC MIPOSHMICHENKO, I.P. SHEDALOV.A.I. MALONA, VOF. IMPROVEMENT OF OPERATION CHARACTERISTICS OF THIP BY IFFECTIVE REDUCTION OF DAVE RESISTAN TRUDY C.N.I.I. MORSKOGO FLOTA 54, 1964, P. 54-THIS IS A DESCRIPTION OF EXPLRIMENTAL RESULTS ON PEDUCTION OF WAVE RESISTANCE OF A SHIP. TH 55C77 E FEDUCTION WAS ACHIEVED BY MEANS OF A MEUTRAL IN PARTICU 128 TION DEVICE LOCALIZED AT STERN. LAR, A LARGE DOME-SHAPED PROJECTION MAS TESTED THE RESULTS INDICATE THAT THE OUTPUT OF THE MAIN PROPELLER MAY BE REDUCED BY 10-201 FOR A HAST CARGO SHIP AT SPEEDS EQUAL TO 0.28-0.35 .509 FPGUDE. CARGO SHIPS, CONSTRUCTION CONSTRUCTION. CAPGO SHIPS 22.77 HULL, DESIGN DECIGN, MULL

```
MI NISM . WE CAN STORY
Sm. -ALIN's Hala
 SHIP5 --
TRUDY C.A. I.I. NORTHWOOD PLUTA JAK INCH.
THIS IS A DISCUSSION OF POCE. IN SHIELD PERSON .
ANCE THEREADS OF SHIPS BY SPECIAL SHAPING OF T
                                                                - -15
HE STERN PART AND BY OFTIMUM LOISTICK OF THE P
                                                                المأزان برلا
ROPELLER. BOTH RUSSIAN AND OTHER EXPERIENTAL
 AND THINK ITICAL STUDIES INDICATE FINSIBILITY
                                                                ひかいりか
OF RUCH APPROACH.
                                                                25010
SHIPS, DESIGN
                                                                25075
DEGIGN, SHIPS
                                                                コラレアイ
PROPELLERS
                                                                55J78
55079
                                                                22715
BOGDAROVA, Z.V.
                                                                ううじィン
  ON REDUCTION OF FRICTION RESISTANCE OF CARGO
                                                                ا موالا بالأوالا
 SHIPS .=
                                                                コンレアシ
TRUDY C.N.I.I. MORSKOGO FLOTA 54, 196-, P. 72-
                                                                22379
                                                                            المارات
88
                                                                25079
THIS IS A REVIEW ARTICLE ON METHODS OF FRICTIO
                                                                20074
N RESISTANCE REDUCTION BY REGULATION OF THE HO
                                                                53075
UNDARY LAYER PROPERTIES. POSSIBLE WAYS OF FRI
                                                                55079
CTION RESISTANCE REDUCTION OF SHIPS ARE DISCUS
                                                                52077
Sco.
                                                                55379
REGISTANCE (FLUID DYNAMICS)
                                                                55079
HULL, SHEATH
                                                                55079
SHEATH, HULL
                                                                55079
55080
JAKUSHENKOV.A.A.
                                                                きちじゃり
  A SHIP LIKE AN OBJECT OF AUTOMATIC REGULATIO
                                                               55000
N.=
                                                               25000
                                                                            204
TRUDY C.N.I.I. MORSKOGO FLOTA 55, 1964, P. 3-2
                                                                39600
                                                               55,000
                                                                            252
THIS IS A THEORETICAL STURY OF STORATIC NAVIG
                                                               55000
ATION SYSTEMS WHICH LEXT A SHIP ACCORDING TO A
                                                               550c0
 GIVEN PROGRAM BY REGULATING THE SHIP VELOCITY
                                                               55080
 AND POSITION OF THE RUDDER. A THEORY OF A.M.
                                                               55050
                                                                             504
BARIN IS FOLLOWED AND A SYSTEM OF DIFFERENTIAL
                                                               55080
 EQUATIONS OF PERTUREED MOTION OF THE SHIP IS
                                                               35000
DERIVED. PROPULSION FUNCTIONS ARE OBTAINED FR
                                                               350×3
OM NAVIGATION PARAMETERS AND FREDUENCY CHARACT
                                                               35050
                                                                             ્રે 🕻 જ
ERICTICS ARE DERIVED. IT IS SHOWN THAT FOR ST
                                                               33360
ABILIZATION OF A SHIP ON A GIVEN PATH. INFURMA
                                                               55030
TION ON LATERAL DISPLACEMENT OF ITS CONTER OF
                                                               55080
                                                                            511
GRAVITY IS NEEDED.
                                                               コランせき
                                                                            コミニ
THE RESULTS MAY BE USED IN DESIGN OF AUTOMATIC
                                                               55000
                                                                            āίο
 NAVIGATION SYSTEMS.
                                                               55000
SHIPS . MAVIGATION SYSTEMS
                                                               55000
NAVIGATION SYSTEMS, SHIPS
                                                               55080
SYRTEMS, COMMAND
                                                               55080
                                                                            703
SYCTEMS, CONTROL
                                                               55040
550A1
                                                               55083
CHETYRKIN, N. V.
                                                               350-1
 ON CONDITIONS OF CHARACTERISTICS COMPUTATION
                                                               20001
                                                                            201
 OF IMPUT (LOADING) FORCES FOR EVALUATION OF U
                                                               33001
                                                                            204
VERALL STRENGTH OF SHIP HULL BY PROBABILITY TH
```

```
202
                                    ٠.
                                                                                             .
د کار
                        -9.76 ·
                                   THANKS ATTOM
                                                                                             304.
                                                                                             505
                                                                                             701
STITISTICAL ANALYSIC
MATRIMATICAL ATTHOS
                                                                              55061
ME THY OBS # O ATHEMATICAL
                                                                                             700
Smips, CICICA
                                                                                             724
                                                                              30681
77 4 4 3 1 1 PS
                                                                              55(61
                                                                                             732
satos, Loábins
                                                                              20001
                                                                                             700
                                                                                             707
LAMBING. SHIPS
                                                                              55001
Smips, ISSTINS
                                                                              55081
                                                                                             708
TESTING. SHIPS
                                                                              55081
                                                                                             709
                                                                                             έĬ¢
 7,300
                                                                              20002
                                                                                             101
SOGIO, Lalle
                                                                              53062
ICT RESISTANCE OF ICENTEAKER COUPLE IN THOKE
N ICE, AS INVESTIGATED FROM 1040 TO 1901.=
TRUDY LEMINGRAD. KORAPLESTR. INST. 29, 1959. P
                                                                              15302
                                                                                             202
                                                                              55602
                                                                                             251
                                                                              55082
                                                                                             252
                                                                              530s2
THIS IS A PESCRIPTION OF EXPENIETHING A HIGH WER
                                                                                             201
                                                                              シンひめを
E PERFORMED IN THE BENIAGRAD A MEDULLUING INSTITUTE MITH A CET OF SCHEEP MODELS OF THE ICEBR CARFRIS STABING PARABINE ICE AD CUED WITH D
                                                                                             504
                                                                              55082
                                                                              55002
                                                                                             ذَن:
                                                                              553n2
                                                                                             5C-
FIGITY SANSING FROM 4 TO IO.
                                       THE RESULTS ARE
                                                                                             505
                                                                              55002
FWALHATED IN FORM OF COEFFICIENTS OF SPECIFIC REMISTANCE WHICH ARE FUNCTIONS OF THE PROGUE N
                                                                              55082
                                                                                             506
                                                                                             507
                                                                              55082
UMBER. FORMULAE APE SHOWN AND COMPARED WITH
                                                                              55082
                                                                                             508
XPEPIMERTS.
                 C.F. REF. 55037.
                                       TRANSLATION REC
                                                                              55082
                                                                                             509
OMMENDED.
                                                                              55082
                                                                                             510
ICE CHARACTERISTICS
                                                                              55002
                                                                                             701
ICE, REAKERS, MODELS
                                                                              55082
                                                                                             702
                                                                                             7:3
MODELS, ICEBREAKERS
                                                                              55002
ICENPEAKERS, MOTION
                                                                                             734
                                                                              55082
MOTION, ICEBREAKERS
                                                                                              705
                                                                              55082
necistance, ice
ice resistance
                                                                              55082
                                                                                             706
                                                                                             707
                                                                              55002
55023
                                                                              55063
                                                                                             010
                                                                                             101
POZNUAK, I.I.
                                                                              პინხვ
                                                                              55083
                                                                                             102
POPOV,JU.F.
                                                                                             103
SULHORUKOV, A.JA.
                                                                              23083
PESEARCH IN THE FIELD OF ICEORDAKIRS.=
PROBLEMY ARKTIKI I ANTARKTIKI 4, 1960, P.
                                                                              55085
                                                                                             201
                                                                                             201
                                                                              55083
                                                                                             252
                                                                              55083
                                                                              55083
THIS IS A PATHER GENERAL ARTICLE SUMMARIZING B
                                                                                             501
RIBELM THE HISTORY OF PAST AND RECENT PESSANCH
                                                                                             502
                                                                              55083
ACTIVITIES IN THE FIELD OF ICLBREAKINS WHICH WAS PERFORMED BY THE ARCTIC INSTITUTE. NO REF
                                                                                             505
                                                                              55033
                                                                              55083
                                                                                             504
EDITION ARE GIVEN. THE FOLLOWING TOPICS ARE D
                                                                              55083
                                                                                             505
IGCUSSED. ICE RESISTANCE OF BROKEN AND SOLID
                                                                              55083
                                                                                             506
ICF, PROPELLERS AND SHAFTS, HULL STREMSTH, MEC
                                                                              55083
                                                                                             507
HAMICAL SYSTEMS, SPECIFICATIONS AND RECOMMENDA
                                                                              53083
                                                                                             508
TIONS. TRANSLATION RECOMMENDED.
                                                                              55003
                                                                                             509
ICEBREAKERS. DESIGN
                                                                              55053
                                                                                              701
DESILLY IC - FLAKERS
                                                                              させいせき
                                                                                             702
ICE KEGIGINACO
                                                                              55033
                                                                                             703
preistance, ict
                                                                              55083
                                                                                              704
                                                                                             705
ICE-PEAKERS, HISTORY
                                                                              らりりゅう
```

S. DAYS DEPARTMENT

HÍR TORY. ICEMREAKERS	<b>5565</b>	766
ICEOREAKERS. PROPELLERS	<b>う</b> うしな <b>ろ</b>	767
PRAPFLLERS, ICFAREAKERS	55003	708
RUCKIAN ICEHREAKERS	うりじゅう	759
ICEHREAKERS. RUSSIAN	• 55063	710
55084	55084	510
BORRS.H.	55084	101
SPECIAL APPLICATION OF ELECTROMAGNETIC SLIPP	55084	201
ING CLUTCHES FOR SUCTION PUMPS OF DREDGES AND	55084	202
FOR PITCHING EQUIPMENT OF ICEHREAKERS.=	55084	203
SCHIFF UND HAFEN 14, MAR 1962, P. 233-235	55084	251
ONLY A V TY BRIEF ATTENTION IS GIVEN TO PITCHI	55084	501
NG EQUIT ENT APPLICATIONS (P. 235 ONLY). I A SI	55 <b>0</b> 84	502
MPLE SCHEMATIC IS SHOWN. TRANSLATION OPTIONAL	55084	503
	55084	504
ICEBREAKERS. PITCHING EQUIPMENT	55084	731
PITCH' EQUIPMENT, ICEBREAKERS	55084	752
55085	55085	010
WOISIN.G.	55085	101
THE INFLUENCE OF TORSIONAL IMPULSE IN SHIP C	55685	201
OLLISION WITH REGARD TO SAFETY OF NUCLEAR SHIP	× 55085	202
S.=	, 55 <b>0</b> 85	203
SCHIFF UND HAFEN 14, JUL 1962, P. 577-581	· 55085	251
THIR IS A SIMPLIFIED ENERGY BALANCE APPROACH T	55085	501
O THE TITLE TOPIC, BASED ON VARIOUS VALUES OF	55085	502
SHIP PARAMETERS.	55085	503
SHIPS. DAMAGE	. 53085	701
DAMAGE. SHIPS	55085	702
SHIPS. COLLISION	., 55085	703
COLLISION, SHIPS	<sub>*</sub> 55085	704
1		

PETROV, E. JU.  DETRONINATION OF HULL EXCESSED DURING THE I	55085 55086	101 201
DETENDINATION OF HULL SASSESSES DURING THE I		
	- ar ar (ar " = 3.9	ÆV i
MPACT PERIOD OF ICEBREAKER'S WORK. =	55086	202
PROBL, ARXT. ARTARKT 24, 1966, P. 68-72	550A6	251
THIS IS A SHORT BUT DETAILED STUDY IN THE PROB	55086	501
LEN OF WEDGING OF AN ICEBREAKER IN HUMMOCKED I	55086	502
CE. IT IS CONSIDERED THAT WEDGING OCCURS IN T	55088	503
HE CENTRAL PART OF THE HULL. HENCE, THE IMPAC	55086	500
T OF HULL SIDES ON UNBREAKABLE ICE COVERAGE IS	55086	505
CONSIDERED. THE ICEBREAKER IS CONSIDERED AS	55086	506
HAVING TWO DEGREES OF PREEDOM OF MOTION_(HORIZ	55086	507
	55086	508
	55086	509
E DERIVED FOR CALCULATION OF HULL EMERGENCE AN	55086	510
D OF WEDGING FORCES AS FUNCTIONS OF ICE PROPER	55086	511
	55086	512
	55086	513
RECOMMENDED.	55086	514
		701
MOTION, ICEBREAKERS		702
	55086	703
	55086	704
55087	55087	011
		101
	55087	201
	55087	251
THIS IS A DETAILED DESCRIPTION OF THE TITLE SH	55087	501
	55087	502
	55087	503
	55087	504
	55087	505
890 HP. TRANSLATION OPTIONAL.	55087	506
ICE-GOING SHIPS	55087	701
SHIPS, ICE-GOING	55087	702
CARGO SHIP FENJA DAN	55087	703
PENJA DAN, CARGO SHIP	55087	704
ICEBREAKING CARGO SHIPS	55087	705
CARGO SHIPS, ICEBREAKING	55087	706
	55088	. 011
LIECKS, B.	55088	101
	55088	201
SCHIFF UND HAFEN, JUL 1958, P. 550-555	55088	251
THIS IS A DESCRIPTION OF OFFICIAL DEVELOPMENT	55088	501
OF SHIP STABILITY REQUIREMENTS IN GERMANY. AL	55088	502
SO, CURRENT STATUS IS DISCUSSED AND EVALUATED	55088	503
POR VARIOUS TYPES OF SHIPS AND CARGO.	55088	504
GERMAN CARGO SHIPS	- 55088	701
CARGO SHIPS, GERMAN	55088	702
SHIPS, LOADING	55088	703
LOADING, SHIPS	55088	704
	CR. IT IS CONSIDERED THAT WEDGING OCCURS IN T HE CENTRAL PART OF THE HULL. HENCE, THE IMPAC T OF HULL SIDES ON UNBREAKABLE ICZ COVERAGE IS CONSIDERED. THE ICEBREAKEM IS CONSIDERED AS HAVING TWO DEGREES OF FREEDOM OF MOTION (HORIZ) ONTAL APD VERTICAL). EQUATIONS OF MOTION ARE DERIVED AND SOLVED. AS A RESULT, RELATIONS AR E DERIVED FOR CALCULATION OF HULL EMERGENCE AM D OF WEDGING FORCES AS FUNCTIONS OF ICE PROPER TIES, HULL SHAPE AND SHIP VELOCITY BEFORE IMPA CT ON A UNBREAKABLE ICE BARRIER. TRANSLATION RECOMMENDED. ICEBREAKERS, MOTION MOTION, ICEBREAKERS ICEBREAKERS, CONSTRUCTION CONSTRUCTION, ICEBREAKERS SO87 POPP,G. POLAR CARGO SHIP "FENJA DAN".= SCHIFF UND HAPEN, JUN 1959, P. 541-546 THIS IS A DETAILED DESCRIPTION OF THE TITLE SH IP. IT IS A FURTHER DEVELOPMENT OF AN EARLIER TYPE "SEADRAKE" AND WAS BUILT IN BREHERN, GER HANY. HAIN PARAMETERS: 100 H LONG, BREADTH 14 SH, DRAUGHT 6.7H, 3469 BRT, A DIRSEL ENGINE 2 890 HP. TRANSLATION OPTIONAL. ICE-GOING SHIPS SHIPS, ICE-GOING CARGO SHIP FENJA DAN PENJA DAN, CARGO SHIP ICEBREAKING CARGO SHIPS CARGO SHIPS, ICEBREAKING 55088 LIECKS, B. SPECIFICATIONS FOR STABILITY OF SEA SHIPS.= SCHIFF UND HAFEN, JUL 1958, P. 550-555 THIS IS A DESCRIPTION OF OFFICIAL DEVELOPMENT OF SHIP STABILITY REQUIREMENTS IN GERMANY. AL SO, CURRENT STATUS IS DISCUSSED AND EVALUATED FOR VARIOUS TYPES OF SHIPS AND CARGO GERMAN CARGO SHIPS CARGO SHIPS, CERRAN SHIPS, LOADING	CE. IT IS CONSIDERED THAT WROGING OCCURS IN T 55086  THE CENTRAL PART OF THE HULL. HENCE, THE IMPAC 55086  TOF HULL SIDES ON UNBREAKBABLE ICI COVERAGE IS 55086  ROYNIDERED. THE ICEBREAKEA IS CONSIDERED AS 55086  RAVING TWO DEGREES OF PREEDOM OF MOTION (MORIZ 55086)  ONTAL AND VERTICAL). EQUATIONS OF NOTION ARE 55086  DERIVED AND SOLVED. AS A RESULT, RELATIONS AR 55086  DERIVED FOR CALCULATION OF HULL EMERGENCE AM 55086  DOWN WEDGING FORCES AS PUNCTIONS OF ICE PROPEE 55086  TIES, HULL SHAPE AND SHIP VELOCITY BEFORE THPA 55086  TIES, HULL SHAPE AND SHIP VELOCITY BEFORE THPA 55086  TIES, HULL SHAPE AND SHIP VELOCITY BEFORE THPA 55086  TIESHEAKERS, HOTION 55086  MOTION, ICEBREAKERS 55086  MOTION, ICEBREAKERS 55086  MOTION, ICEBREAKERS 55086  MOTION, ICEBREAKERS 55086  CONSTRUCTION, ICEBREAKERS 55087  POPP,G. 55087  POPP,G. 55087  TOPP, G. 55087  TOPP THIS IS A DETAILED DESCRIPTION OF THE TITLE SH 55087  THIS IS A DETAILED DESCRIPTION OF THE TITLE SH 55087  TIP. IT IS A PURTHER DEVELOPMENT OF AN EARLIER 55087  TIPL IS A PURTHER DEVELOPMENT OF AN EARLIER 55087  THEY "SEADRAKE" AND WAS BUILT IN BREHEN, GER 55087  THAN IN ARABMETERS: 100 M LOUG, BREADT 14 55087  SHIPS, ICE-GOING SHIPS 55087  CARGO SHIP FRANA DAM 55087  FENJA DAN, CARGO SHIP 55087  CARGO SHIP, TRANSLATION OPTIONAL. 55087  TICE-GOING SHIPS 55087  CARGO SHIP, FRANA DAM 55087  FENJA DAN, CARGO SHIP 55087  CARGO SHIP, ICEBREAKING 55087  TOPEREAKING CARGO SHIPS 55087  CARGO SHIP, STADUL 1958, P. 550-555  SORG  THIS IS A DESCRIPTION OF OPTICIAL DEVELOPMENT 55088  OF SHIP STABILITY REQUIREMENTS IN GERMANY. AL 55088  OF SHIP STABILITY REQUIREMENTS IN GERMANY. AL 55088  OF SHIP STABILITY REQUIREMENTS IN GERMANY. AL 55088  CARGO SHIPS, GERMAN 55088  CARGO SHIPS, GERMAN 55088  CARGO SHIPS, GERMAN 55088  CARGO SHIPS ADDING 55088  CARGO SHIPS, GERMAN 55088  CARGO SHIPS, LOADING 55088  CARGO SHIPS, LOADING 55088  CARGO SHIPS, LOADING 55088  SORGER SHIPS, LOADING 55088  SORGER SHIPS, LOADING 55088  SORGER SHIPS, LOADING 55088  CARGO SHIPS, LOADING 55088  SORGER SHIPS,

SHIPS, STABILITY	55088	7
STABILITY, SHIPS	55088	7
SHIPS, SAFETY EQUIPMENT	55088	7
SAFETY RQUIPMENT, SHIPS	55088	
SHIPS, SPECIFICATIONS	55088	7
SPECIFICATIONS, SHIPS 55089	<u> 55088</u> 55089	<u>′</u>
MEBYLOV, V. M	55089	1
ALLOWANCES MADE FOR THE WELDING STRESSES WHE	. 55089	2
RE CALCULATING THE STRENGTH OF COMPONENTS OF S	55089	2
TRUCTURES.=	55089	2
AUTONATIC WELDING, PEB 1962, P. 1-10	55089	2
THE EFFECTS OF THE RESIDUAL VELDING STRESSES O	55089	5
N THE WORKING OF COMPONENTS UNDER LONGITUDINAL	55089 55089	<u>5</u>
COMPRESSION IN STRUCTURES ARE EXAMINED. A ME THOD IS PREPARED FOR CALCULATING THE STRENGTH	55089 55089	5 5
OF WELDED COLUMNS. COMPARISON WITH EXPERIMENT	55089	5
S IS MADE.	55089	5
RESIDUAL STRESSES	55089	7
RELDING TECHNIQUES	55089	7
STRUCTURBS	55089	7
<u> 55090                                 </u>	55090	0
WAAS, S.	55090 55000	1
SCHIFF UND HAPEN, DEC 1958, P. 1048-1050	55090 55090	2
THIS IS A SHORT DESCRIPTION OF THE ARRANGEMENT	55090	5
AND PERFORMANCE OF PITCHING EQUIPMENT ON THRE	55090	5
E GERMAN ICEBREAKERS. FOR MORE DETAILED TREAT	55090	5
HENT SEE REPERENCE 55072.	55090	5
ICEBREAKERS, PATCHING EQUIPMENT	55090 /	
PATCHING EQUIPMENT, ICEBREAKERS	55090V	7
CONSTRUCTION, TERREAKERS	55090 55090	7
ICEBREAKERS, CONSTRUCTION	55090	. 6
ANONYHUS	55091	
DIESEL-ELECTRIC ICEBREAKER "HURTAJA".*	55091	
SCHIFF UND HAPEN, AUG 1959, P. 757	55091	7
THIS IS A VERY SHORT DESCRIPTION OF THE TITLE	55091	- 5
ICEBREAKER. FOR HORE DETAILED REPORT SEE REFE	55091	
RENCE 55092.	55091	
ACABREAKER NURTAJA	55091 55091	7
HURTAJA ICEBREAKER ICEBERAKER KARHU	55091	
KARHU ICEBREAKER	- 55091	7
55092	55092	-
HOLLHANN, W.	55092	. 1
FIREISH ICEBREAKER "NURTAJA".=	55092	
SCHIFF UND HAPEN, KOV 1959, P. 1017-1023	55092	
THIS IS A DETAILED DESCRIPTION OF THE TITLE IC	55092	. 9
- CONTRACTOR OF AN . WANTED THE TOTAL OF THE PARTY OF THE	55092	
ARHU (REP. 55004) - NAIN CHARACTERISTICS LENGT	55092 55092	
74.1 H, BEEADTH 17.4 H, DEPTH 8.8 H, DRAUGHT 5.8 H, HAXINGH POWER 7500 HP, 3370T. THE ART	\$5092 \$5092	
ICLE PAYS CONSIDERABLE ATTENTION TO THE PROPUL	55092	
SION EQUIPMENT AND ASSOCIATED BLECTRIC STREETS	55092	
TRANSLATION OPTIONAL.	55092	
ICEBREAKER BURTAJA	55092	
BURTAJA ICEBREAKER	55092	*
ICEBREAKER KARHO	55092	÷ ,

. .

KARHU ICEBREAKER	55092	704
ICEBREAKERS, CONSTRUCTION CONSTRUCTION, ICEBREAKERS	55092	705
55093	55092	706
LOTTO, H.	55093	011
A POWERFUL HARBOR TUG WITH DIESEL-ELECTRIC P	55093	101
ROPULSION AND NOZZLE-RUDDER.=	<u>55093</u>	201
SCHIFF UND HAPEN, DEC 1959, P. 1103-1105-	55093	202
THIS IS A SHORT DESCRIPTION OF THE HARBOR TUG	<u>55093</u> 55093	<u>251</u>
"JOHANNA" WHICH SERVES THE HAMBURG PORT. LENG		501
TH 26.6 M, BREADTH 7.2 M, DRAUGH 3.6 M, 675 H	<u>55093</u> 55093	<u>502</u> 503
P. SPECIAL STABILITY AND OTHER OPERATION FEAT	55093 55093	504
URES ARE CLAIMED.	55093 55093	505
HARBOR TUGS	55093 ·	701
TUGS, HARBOR	55093	702
55094	55094	011
NOGID, L. M.	55094	101
ON THE PITCHING MOTION IN REGULAR WAVES.=	55094	201
TRUDY LEN. KORAB. INST, 22, 1958, P. 87-105	55094	251
THIS IS AN EXTENSIVE THEORETICAL ARTICLE ON TH	55094	501
E TITLE TOPIC. THE KRYLOV-PAVIENKO FORMULAE F	55094	502
OR EVALUATION OF PITCH IN REGULAR WAVES ARE AD	55094	503
JUSTED AND SHOWN IN A SIMPLER AND MORE UNDERST	55094	504
ANDABLE WAY. THE SIMPLIFICATION PROCEDURE IS	55094	505
SHOWN PIRST AND RESONANCE CURVES ARE DISCUSSED	55094	506
AT LENGTH. ATTENTION IS PAID TO THE INPLUENC	55094	507
E OF THE CHARACTERISTICS OF SHIPS AND WAVES ON	55094	508
PITCH. NUMERICAL EVALUATIONS ARE HADE AND TH	55094	509
MY ARE COMPARED WITH MEASUREMENTS ON A SHIP.	55094	510
TRANSLATION OPTIONAL.	55094	511
SHIPS, MOTION	55094	701
MOTION, SHIPS	55094	702
SHIPS, TESTING	55094	703
TESTING, SHIPS	55094	704
55095	55095	011
KURDJUNOV, A. A.	55095	101
VIBRATION OF DECK PLATES DURING NAVIGATION.=	55095	201
TRUDY LEN. KORAB. INST. 22, 1958 P. 107-117	55095	251
THIS IS A DETAILED THEORETICAL ARTICLE ON THE	55095	501
TITLE TOPIC. AN EXACT METHOD IS EXPLAINED WHI	55095	502
CH CAN BE USED FOR SOLUTION OF A NUMBER OF FOR	55095	503
CED VIBRATION PROBLEMS INVOLVING PLAT STRUCTUR	55095	504
AL HEMBERS SUPPORTED ALONG A RECTANGULAR COXTO	55095	505
UR. ALTHOUGH THE METHOD IS ILLUSTRATED ON EXA	55095	506
MPLES, IT IS POINTED OUT THAT THERE IS A WESD	55095	507
POR TABULATED EXPRESSIONS WHICH WOULD BE BASIL	55095	508
Y APPLICABLE. TRANSLATION OPTIONAL.	55095	509
SHIPS, DESIGN	55095	701
DESIGN, SHIPS	55095	702
MATHRMATICAL METHODS	55095	703
METHODS, HATHEMATICAL	55095	204
SHIPS, STRUCTURAL COMPONENTS	55095	705
STRUCTURAL COMPONENTS, SRIPS	55095	- 706
55096	55096	011
KRUZO, O. A.	55096	101
ECONOMICAL FOUNDATIONS OF DIVISION OF SHIP R	55096	201
ULLS THTO ASSERBLY SECTIONS.=	55096	202
TRUDY LRN. KORAB. INST. 22, 1958 P. 165-180	55096	251
THIS IS AN EXTENSIVE THEORETICAL ARTICLE ON NO	55096	501
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CA BOOKONYOLI BOOCBOODE OF CUTO LECTION TH	55096	50
ST ECOMONICAL PROCEDURES OF SHIP ASSEMBLY. IN	55096	50 50
PARTICULAR, DIVISION INTO ASSEMBLY SECTIONS I S CONSIDERED AND OPTIMIZED PROM ECONOMY VIEWPO	55096	50
THI.	55096	50
SHIPS, ASSEMBLY	55096	70
ASSEMBLY, SHIPS	55096	70
SHIPS, STRUCTURAL COMPONENTS	55096	70
STRUCTURAL COMPONENTS, SHIPS -	55096	70
55097	55097	00
PAPKOVICH, P. P.	55097	10
COLLECTED WORKS ON STRUCTURAL HECHANICS OF S	55097	20
HIPS, VOL. 1.=	55097	20
SUDPRONGIZ, LENINGRAD 1962, 573 PP.	55097	35
THE PIRST OF FOUR VOLUMES OF THIS EXTRASIVE BO	<u>55097</u> 55097	50 50
OK IS ENTITLED BENDING OF BEAMS AND OF RECTAN	55097	50
GULAR TRANES". IT GIVES AN EXCELLENT EXPOSITE ON OF THE THEORY OF BEAMS AND FRAMES. IT INCL	55097	50
UDES TREATHERT OF BEAMS ON ELASTIC FOUNDATIONS	55097	50
SHELLS AND MENTIONS ALSO TEMPERATURE EFFECTS	55097	50
IN BRANS AND FRANCS. THE COPY INCLUDES AN EX	55097	50
TENSIVE BIOGRAPHY OF THE AUTHOR, WHO HAS BARNE	55097	50
D INTERNATIONAL RECOGNITION. THEM, THE FORENO	55097	50
RD AND TABLE OF CONTENTS ARE INCLUDED. ALL FO	55097	51
UR VOLUMES ARE AVAILABLE IN THE LIBRARY OF CON	55097	51
GRESS, CALL BURBER VN 156 P 32	55097	51
SHIPS DESIGN	55097	70
DESIGN, SHIPS	55097	70
SHIPS, STRUCTURAL COMPONENTS	<u>55097</u> 55097 -	<u>7(</u> -7(
STRUCTURAL COMPONENTS, SHIPS	55097	70
Stauctures 55098	55098	00
PAPROFICH, P. P.	55098	~ 10
COLUMN TED WORKS ON STRUCTURAL MECHANICS OF S	55098	20
MIRS. VOL. 2.=	55098	2(
SUDPRONGIZ, LENINGRAD, 1962, 624 PP.	55098	3:
THIS IS THE CONTINUATION OF REPERBNCS 55097.	55098	5(
THE SECOND VOLUME IS ENTITLED "BENDING OF CURY	55098 55008	5(
LINEAR FRANCS AND GRILLAGES". TITLE PAGES AN	55098 55098	<u>5</u> (
DITHE TABLE OF CONTENTS ARE COPIED. PARTICULA PATTENTION IS GIVEN TO CURVILINEAR PRANES, TO	55098	5(
CLOSED CIRCULAR FRANCS AND TO THEIR STABILITY	55098	5
TO DEFORMATIONS IN TRANSVERSE DIRECTION. TH	55098	50
E SECOND HALF OF THE BOOK IS DEVOTED TO DETAIL	5509R	50
ED TREATMENT OF A NUMBER OF CASES IN THE THEOR	55098	51
Y OF GRILLAGES.	55098	5
SHIPS DESIGN	·55098	7
DESIGN, SHIPS	55098	7
SHIPS, STRUCTURAL COMPONENTS	55098	7
STRUCTURAL CONPONENTS, SHIPS	55098	7
STRUCTURES	55098 55099	0
	55099	1
PAPKOVICH, P. P. COLL RECEASED FOR STRUCTURAL HECHANICS OF S	55099	2
MIRS. VOL. 3.=	55099	2
SUDPRONGIZ, LENINGBAD, 1962, 521 PP.	55099	3
THIS IS THE CONTINUATION OF REPERENCE 55097 AN	55099	- 5
D 55098. IT IS ENTITLED "CONBINED BENDING OF	55099	5
BIRS AND BENDING OF PLATES." TABLE PAGES AND	55099	5
TABLE OF CONTENTS ARE COPIED. COMBINED BENDIN	55099	5

GREAT DETAIL. "MENSY OF PLATES IS THEN DEVEL 55099 506 OPED AND APPLIED TO VARIOUS CASES OF RECTAMENU 55099 507 AR AND CURVILIERS PLATES. CORDIVED REMDING 0 55099 508 P RECTANGULAR PLATES IS ILLUSTRATED ON PARTICU 55099 509 P RECTANGULAR PLATES IS ILLUSTRATED ON PARTICU 55099 509 P RECTANGULAR PLATES IS ILLUSTRATED ON PARTICU 55099 509 P RECTANGULAR PLATES IS ILLUSTRATED ON PARTICU 55099 509 P RECTANGULAR PLATES IS ILLUSTRATED ON PARTICU 55099 509 P RECTANGULAR PLATES IS ILLUSTRATED ON PARTICU 55099 701 SHIPS DRSIGN 55099 702 SHIPS DRSIGN 55099 702 SHIPS, STRUCTURAL CORPONENTS 55099 703 STRUCTURAL COMPONENTS, SHIPS 55099 703 STRUCTURAL COMPONENTS, SHIPS 55099 705 STRUCTURAL COMPONENTS, SHIPS 55009 705 STRUCTURAL COMPONENTS, SHIPS 55100 001 PARKOVICA,P.Y. 55100 001 PARKOVICA,P.Y. 55100 001 PARKOVICA,P.Y. 55100 201 HIPS, VOL. 4." 55100 001 HIPS, VOL. 4." 55100			· ·
OPED AND APPLIED TO VARIOUS CASES OF RECTANGUE 55099 507  AR AND CURVILIRARS PLATES. COMBINED REDDING 0 55099 508  F RECTANGULAR PLATES IS ILLUSTRATED ON PARTICU 55099 509  F RECTANGULAR PLATES IS ILLUSTRATED ON PARTICU 55099 509  AR EXAMPLES  STRUCTURES 55099 701  DESIGN, SHIPS 55099 702  SHIPS, STENCTURAL COMPONENTS 55099 703  STRUCTURES 55099 703  STRUCTURES 55099 705  STRUCTURES 55099 705  STRUCTURES 55009 705  COLLECTED WORKS ON STRUCTURAL MECHANICS OF S 55100 001  PARKOVICH, P. V. 55100 001  PAR		_	
AR AND CURVILIRARA PLATES. COMBINED BENDING O 55099 509 AR TRECTANGULAR PLATES IS ILLUSTRATED ON PARTICU 55099 509 AR STAMPLES. 55099 510 SUIPS DESIGN 55099 701 SUIPS DESIGN 55099 702 SUIPS DESIGN 55099 703 SUIPS DESIGN 55099 703 SUIPS DESIGN 55099 703 SUIPS DESIGN 55099 703 SURCTURAL COMPONENTS 55099 703 SURCTURAL COMPONENTS 55099 703 SURCTURAL COMPONENTS, SHIPS 55099 703 SURCTURAL COMPONENTS, SHIPS 55009 703 SURCTURAL COMPONENTS, SHIPS 55000 001 PARKOVICH,P,Y. 55100 001 PARKOVICH,P,Y. 5510			
T RECTANGILAR PLATES IS ILLUSTRATED ON PARTICU  AR STAMPLYS.  SERVED DESIGN  SIPS DESIGN  DERICM, SHPS  SIPS, STRUCTURAL COMPONENTS  STRUCTURES  STRUCTURE			
AR EXAMPLES.  SEITED DESIGN  DESIGN, SHIPS  SHOPS DESIGN  DESIGN, SHIPS  SHOPS DESIGN  DESIGN, SHIPS  SHOPS DESIGN  SHIPS, STRUCTURAL COMPONENTS  SHOPS DESIGN  STRUCTURAL COMPONENTS  FRIST THE FINAL VOLUME OF THE COLLECTION DES  STRUCTURAL COMPONENTS  FRIST STRUCTURAL VOLUME OF THE COLLECTION DES  STRUCTURAL COMPONENTS  FRIST STRUCTURAL VOLUME OF THE COLLECTION DES  STRUCTURAL COMPONENTS  FRIST STRUCTURAL COMPONENTS  STRUCTURAL COMP			
SHIPS DESIGN   55099 701		_	
STRUCTURAL COMPONENTS   55099 702			
SHIPS, STRUCTURAL COMPONENTS, SHIPS  STRUCTURES  STRUC	· · · · ·		2
STRUCTURAL COMPONENTS, SHIPS			
STRUCTURES   55009   705   55100   001			
S5100   O01		the same of the sa	
PARKOVICH, P. Y.  COLLECTED WORKS ON STRUCTURAL NECHANICS OF S 55100 201  HIPS, VOL. 4.= SUDPROMOLIZ, LBHINGRAD 1963, 545 PP. STRUCTURAL VOLUME OF THE COLLECTION DES 55100 351  THIS IS THE FIRAL VOLUME OF THE COLLECTION DES 55100 351  CRIBED IN REFERENCES 55097, 55098, 55099 AND H 55100 502  CRIBED IN REFERENCES 55097, 55098, 55099 AND H 55100 503  AGES AND PLATES.* TITLE PAGES AND THE TABLE O 55100 504  AGES AND PLATES.* TITLE PAGES AND THE TABLE O 55100 504  OF THE TITLE TOPIC IS PRESENTED BOTH GREERL 55100 505  OF THE TITLE TOPIC IS PRESENTED BOTH GREERL 55100 506  THEORY AND HA A WHRER OF PARTICULAR EXAMPLES 55100 507  AND APPLICATIONS TO SHIPBUILDING. 55100 507  SHIPS DESIGN 55100 701  SHIPS, STRUCTURAL COMPONENTS 55100 702  SHIPS, STRUCTURAL COMPONENTS 55100 703  STRUCTURAL COMPONENTS, SHIPS 55100 703  STRUCTURAL COMPONENTS, SHIPS 55100 705  STRUCTURES 55101 901  SHEVERNITSKII, V. V. THE STATIC STRINGTH OF NELDED STRUCTURES.* 55101 701  SHEVERNITSKII, V. V. THE STATIC STRINGTH OF NELDED STRUCTURES.* 55101 501  OPHY OF MELDED STRUCTURES AND ON DESIGN PHILOS 55101 501  NYS AND OTHER STRUCTURAL DETAILS PROM THE VIEW 55101 501  POINT OF SHIPT! AGAINST LOW STRESS BRITTLE PRA 55101 502  NYS AND OTHER STRUCTURES AND ON DESIGN PHILOS 55101 702  STRUCTURES 55101 702  STRUCTURES 55101 702  STRUCTURES 55101 703  STRUCTURE STRUCTURAL COMPONENTS 55101 702  STRUCTURES 55101 703  RAEVSKII, G. V. CENTARN PROBLEMS IN DESIGNING WELDED STRUCTUR STRUCTURE 55101 703  PASSING, PRACTURE 55101 703  RAEVSKII, G. V. CENTARN PROBLEMS IN DESIGNING WELDED STRUCTUR 55102 501  DESIGN, SHIPS 55101 703  DESIGN OF WEDDED STRUCTURES. SPECIAL ATTEMPT 55102 501  DESIGN OF WEDDED STRUCTURES. SPECIAL ATTEMPT 55102 501  DESIGN OF WEDDED STRUCTURES. SPECIAL ATTEMPT 55102 501  DESIGN, SHIPS 55102 503  G TCCHIQUES BSED IS THE PABRICATION PROCESS A 55102 503  ON IS PAD TO THE STRUCTURES. SPECIAL ATTEMPT 55102 503  OF TCCHIQUES BSED IS THE PABRICATION PROCESS A 55102 503  DESIGN, SHIPS  STRUCTURES 55102 503  G TCCHIQUES BSED IS THE PABRICATION PROCE	•		
COLLECTED WORKS ON STRUCTURAL HECHANICS OF S			
HIPS, VOL. 4.=   SUDPROMETZ, LENINGRAD 1963, 545 PP.			
SUDPROMETZ,LENTINGRAD 1963,545 PP.   55100   351   THIS IS THE FIRAL VOLUME OF THE COLLECTION DES   55100   501   CRIBED IN REFERENCES 55097, 55098, 55099 AND   55100   502   ERE. IT IS ENTITLED "STABILITY OF BARS, GRILL   55100   503   AGES AND PLATES," TITLE PAGES AND THE TRABLE 0   55100   504   F CONTENTS ARE COFIED. AN EXTENSIVE TREATHERT   55100   505   OF THE TITLE TOPIC IS PRESENTED BOTH GENERAL   55100   505   THEORY AND IN A HUNGER OF PARTICULAR EXAMPLES   55100   507   AND APPLICATIONS TO SHIPBUILDING.   55100   507   AND APPLICATIONS TO SHIPBUILDING.   55100   508   SHIPS DESIGN   55100   702   SHIPS, STRUCTURAL COMPONENTS   55100   703   STRUCTURAL COMPONENTS, SHIPS   55100   703   STRUCTURES   55100   705   STRUCTURES   55100   705   STRUCTURES   55100   705   STRUCTURES   55101   701   SHAVERNITSKII, V.V.   55101   901   THE STATIC STRENGTH OF WELDED STRUCTURES.   55101   901   AUTOMATIC WELDING, OCT 1960, F. 1-8   55101   501   OPHY OF VELDED STRUCTURES AND ON DESIGN PHILOS   55101   501   OPHY OF VELDED STRUCTURES AND ON DESIGN PHILOS   55101   502   NTS AND OTHER STRUCTURAL DETAILS PROM THE VIEW   55101   503   POINT OF SAFETY AGAINST LOW STREES BRITTLE PRA   55101   503   POINT OF SAFETY AGAINST LOW STREES BRITTLE PRA   55101   703   STRUCTURES   55101   703   SHIPS, DESIGN   55101   703   SHIPS, DESIGN   55101   703   SHIPS, STRUCTURE   55101   703   SHIPS DESIGN   55102   201   RESS.   55102   501   705   SHIPS IS A GENERAL ARTICLE ON THE PRILOSOPHY OF   55102   201   RESS.   55102   501   705   SHIPS IS A GENERAL ARTICLE ON THE PRILOSOPHY OF   55102   201   RESS.   55102   501   705   SHIPS IS A GENERAL ARTICLE ON THE PRILOSOPHY OF   55102   201   RESS.   55102   501   705   SHIPS IS A GENERAL ARTICLE ON THE PRILOSOPHY OF   55102   201   DESIGN OF WELDED STRUCTURES, SPECIAL ATTERT   55102   501   DESIGN OF WELDED STRUCTURES, SPECIAL ATTERT   55102   501   DESIGN, SHIPS   55102   501   DESIGN, SHIPS   55102   501   DESIGN OF THE PRILOSOPHY OF   55102   501   DESIGN OF THE STRUCTURES, SPEC			
THIS IS THE FINAL VOLUME OF THE COLLECTION DES			- 23 27 .
CRIBED IN REFERENCES 55097, 55098, 55099 AND H 55100 502  ERE. IT IS ENTITLED "STABILITY OF BARS, GRILL 55100 503  AGES AND PLATES." TITLE PAGES AND THE TABLE 0 55100 505  OF THE TITLE TOPIC IS PRESENTED BOTH GENERAL 55100 505  OF THE TITLE TOPIC IS PRESENTED BOTH GENERAL 55100 506  THEORY AND IN A MUNDER OF PARTICULAR EXAMPLES 55100 507  AND APPLICATIONS TO SHIPBUILDING. 55100 508  SHIPS DESIGN 55100 701  DESIGN, SHIPS 55100 702  STRUCTURAL COMPONENTS 55100 703  STRUCTURAL COMPONENTS, SHIPS 55100 704  STRUCTURAL COMPONENTS, SHIPS 55100 705  STRUCTURAL COMPONENTS, SHIPS 55100 705  STRUCTURAL COMPONENTS, SHIPS 55100 705  THE STATIC STRENGTH OF MELDED STRUCTURES.* 55101 301  AUTONATIC WELDING, OCT 1960, P. 1-8 55101 201  AUTONATIC WELDING, OCT 1960, P. 1-8 55101 251  THIS IS A USEFUL ARTICLE ON BOTH DESIGN PHILOS 55101 504  OPH OF WELDED STRUCTURES AND ON DESIGN OF 301 55401 502  MTS AND OTHER STRUCTURES AND ON DESIGN OF 301 55401 503  POINT OF SAFERT AGAINST LOW STREES BRITTLE PRA 55101 503  FRACTURE IN ENGLISH. 55101 705  STRUCTURES 55101 703  SHIPS, DESIGN 55101 705  SHIPS, STRUCTURAL COMPONENTS 55101 706  STRUCTURES 55101 706  STRUCTURES 55101 706  STRUCTURES 55101 706  STRUCTURE TESTING 55101 706  STRUCTURE TESTING 55101 706  STRUCTURE TESTING 55101 706  SHIPS, STRUCTURAL COMPONENTS 55101 706  SHIPS, STRUCTURAL COMPONENTS 55101 706  STRUCTURE TESTING 55101 706  SHIPS, STRUCTURAL COMPONENTS 55102 201  RES. = 4070NAMIC WELDING, JUN 1962, P. 5-10 55102 201  RES. = 4070NAMIC WELDING, JUN 1962, P. 5-10 55102 201  THIS IS A GENERAL ARTICLE ON THE PHILOSOPHY OF 55102 201  THIS IS A GENERAL ARTICLE ON THE PHILOSOPHY OF 55102 501  DESIGN OF WELDED STRUCTURES, SPECIAL ATTENTY 55102 501  ON IS PAID TO THE INTERRELATION BETWEEN WELDING 55102 501  DESIGN OF WELDED STRUCTURES, SPECIAL ATTENTY 55102 501  SHIPS DESIGN 18 WEGLISH. 55102 503  SHIPS DESIGN 18 WEGLISH. 55102 503  SHIPS DESIGN 55102 503  SHIPS DESIGN 55102 503  SHIPS DESIGN 55102 503  SHIPS DESIGN 55102 503			
ERE. IT IS ENTITLED "STABILITY OF BARS, GRILL 55100 503 AGES AND PLATES." TITLE PAGES AND THE TABLE O 55100 504 OF CONTENTS ARE COPIED. AN EXTENSIVE TREATHERT 55700 505 OF THE TITLE TOPIC IS PRESENTED BOTH GREERAL 55100 506 THOORY AND IN A WINDER OF PARTICULAR EXAMPLES 55100 508 AND APPLICATIONS TO SHIPBUILDING. 55100 701 DESIGN, SHIPS 55100 702 SHIPS DESIGN 55100 703 STRUCTURAL COMPOWERTS 55100 703 STRUCTURAL COMPOWERTS 55100 705 STRUCTURES 55101 705 SHEVERNITSKII, V.V. 55101 911 SHEVERNITSKII, V.V. 55101 901 THE STATIC STRENGTH OF MELDED STRUCTURES. 55101 201 AUTOMATIC MELDING, OCT 1960, R. 1-8 55101 225 THIS IS A USBRUL ARTICLE ON BOTH DESIGN PHILOS 55101 225 MTS AND OTHER STRUCTURES AND ON DESIGN OF 303 55401 502 MTS AND OTHER STRUCTURES AND ON DESIGN OF 303 55401 502 MTS AND OTHER STRUCTURES AND ON DESIGN OF 303 55401 502 MTS AND OTHER STRUCTURES AND ON DESIGN OF 303 55401 502 MTS AND OTHER STRUCTURES AND ON DESIGN OF 303 55401 502 MTS AND OTHER STRUCTURES AND ON DESIGN OF 303 55401 502 MTS AND OTHER STRUCTURE DETAILS PROM THE VIEW 55101 703 TESTING, PRACTURE 55101 703 TESTING, PRACTURE 55101 703 TESTING, PRACTURE 55101 703 SHEPS, SIRUCTURES 55101 703 SHEPS, SIRUCTURES 55101 703 SHEPS, SIRUCTURE 55101 705 SHEPS, STRUCTURAL COMPONENTS 55101 705 STRUCTURE COMPONENTS 55101 705 STRUCTURE COMPONENTS 55101 705 STRUCTURE COMPONENTS 55101 705 STRUCTURE STRUCTURAL COMPONENTS 55101 705 STRUCTURE OF THE THERE LATICE OF THE PHILOSOPH OF 55102 201 THIS IS A GENERAL ATTICLE OF THE PHILOSOPH OF 55102 501 DESIGN, SHIPS ON IS PAID TO THE THERE LATICE OF THE PHILOSOPH OF 55102 501 DESIGN OF WELDED STRUCTURES SPECIAL ATTERY 55102 501 DESIGN, SHIPS SHIPS, SHIPS SHOULD STRUCTURE SPECIAL ATTERY 55102 501 DESIGN, SHIPS SHIPS DESIGN 55102 503 SHIPS DESIGN 55102 501 DESIGN, SHIPS SHIPS DESIGN 55102 503 SH			502
AGES AND PLATES.* TITLE PAGES AND THE TABLE C   55100   504		the state of the s	503
CONTENTS ARE COPIED. AN EXTENSIVE TRRATHERT   55100   505		55 100	
THEORY AND IN A BUNBER OF PARTICULAR EXAMPLES  AND APPLICATIONS TO SHIPBUILDING.  55100  508  508  509  508  509  509  509  5	P CONTENTS ARE COPIED. AN EXTENSIVE TREATMENT	· · · · · · · · · · · · · · · · ·	
AND APPLICATIONS TO SHIPBUILDING.  SHIPS DESIGN SHIPS   55100 701 DESIGN, SHIPS   55100 702 SHIPS, STRUCTURAL COMPONENTS   55100 702 SHIPS, STRUCTURAL COMPONENTS   55100 703 STRUCTURAL COMPONENTS, SHIPS   55100 705 STRUCTURES   55100 705 S5101   55101   611 SHEVERNITSKII, V. V. THE STATIC STRENGTH OF WELDED STRUCTURES.   55101   101 THES STATIC STRENGTH OF WELDED STRUCTURES.   55101   201 AUTOMATIC WELDING, OCT 1960, P. 1-8   55101   251 THIS IS A USEPUL AFTICLE ON BOTH DESIGN PHILOS   55101   251 THIS IS A USEPUL AFTICLE ON BOTH DESIGN PHILOS   55101   501 OPHY OF WELDED STRUCTURES AND ON DESIGN OF 301   55401   502 WITS AND OTHER STRUCTURES AND ON DESIGN OF 301   55401   502 WITS AND OTHER STRUCTURES AND ON DESIGN OF 301   55401   502  TRACTURE TESTING   55101   505 FRACTURE TESTING   55101   703 SHIPS, DESIGN   55101   703 SHIPS, DESIGN   55101   703 SHIPS, DESIGN   55101   705 SHIPS, STRUCTURAL COMPONENTS   55101   706 STRUCTURAL COMPONENTS   55101   706 STRUCTURAL COMPONENTS   55101   707 STRUCTURAL COMPONENTS   55101   706 STRUCTURAL COMPONENTS   55101   706 STRUCTURAL COMPONENTS   55102   301 RES. =			the same of the sa
SHIPS DESIGN			
DESIGN, SHIPS SHIPS, STRUCTURAL COMPONENTS STRUCTURAL COMPONENTS, SHIPS STRUCTURAL COMPONENTS, SHIPS STRUCTURAL COMPONENTS, SHIPS STRUCTURES ST			
SHIPS, STRUCTURAL COMPONENTS STRUCTURAL COMPONENTS, SHIPS STRUCTURES STRUCTURE STRUCTURES STRUCTURE STRUCTURE STRUCTURES STRUCTURE STRUCTURE STRUCTURAL COMPONENTS ST			10 10 to
STRUCTURAL COMPONENTS, SHIPS  STRUCTURES  55100 705  55101 55101 611  SHEVERNITSKII, V. V. 55101 701  THE STATIC STRENGTH OF WELDED STRUCTURES.** 55101 201  AUTOMATIC WELDING, DCT 1960, P. 1-8 55101 201  AUTOMATIC WELDING, DCT 1960, P. 1-8 55101 201  HIS IS A USEFUL ARTICLE ON BOON DESIGN PHILOS 55101 503  OPHY OF WELDED STRUCTURAL DETAILS FROM THE WIRM 55101 502  NTS AND OTHER STRUCTURAL DETAILS FROM THE WIRM 55101 503  POINT OF SAFETY AGAINST LOW STRESS BRITTLE FRA 55101 505  FRACTURE IN ENGLISH. 55101 505  FRACTURE TESTING 55101 702  STRUCTURES 55101 702  STRUCTURES 55101 703  SHIPS, DESIGN 55101 703  SHIPS, DESIGN 55101 706  STRUCTURAL COMPONENTS 55101 706  STRUCTURAL COMPONENTS 55101 706  STRUCTURAL COMPONENTS, SHIPS 55102 5011  RABYSKII, G. V. 55102 101  RES. **  AUTOMATIC WELDING, JUN 1962, P. 5-10 55102 201  RES. **  BUTCH THE IS A GENERAL ARTICLE ON THE PHILOSOPHY OF 55102 201  RES. **  BUTCH THE WELDING, JUN 1962, P. 5-10 55102 501  DESIGN OF WELDED STRUCTURES, SPECIAL ATTENT! 55102 502  ON IS PAID TO THE INTERNELATION STRUCTURE 55102 502  ON IS PAID TO THE INTERNELATION STRUCTURES 55102 503  BUT DESIGN. IN ENGLISH. 55102 505  SHIPS DESIGN 55102 505  SHIPS DESIGN. IN ENGLISH. 55102 505  SHIPS DESIGN. IN ENGLISH. 55102 505  SHIPS DESIGN FREPS 55102 703  BUSIGN, SHIPS  SELDING FECHNIQUES 55102 55102  DESIGN, SHIPS  SELDING FECHNIQUES 55102 55102  DESIGN, SHIPS  SELDING FECHNIQUES 55102 503			The state of the s
STRUCTURES   55101   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   705   7	· · · · · · · · · · · · · · · · · · ·		\max.\s
S5101   SHEVERNITSKII, V.V.			
SHEVERNITSKII, V. V. THE STATIC STRENGTH OF WELDED STRUCTURES.			
THE STATIC STRENGTH OF NELDED STRUCTURES.=  AUTOMATIC NELDING, OCT 1960, P. 1-8  THIS IS A USEFUL ARTICLE ON BOTH DESIGN PHILOS OPHY OF NELDED STRUCTURES AND ON DESIGN OF ACT OPHY OF NELDED STRUCTURES AND ON DESIGN OF ACT OPHY OF NELDED STRUCTURAL DETAILS PRON THE NIME STAND OTHER STRUCTURAL DETAILS PRON THE NIME CTURE. IN ENGLISH.  CTURE. IN ENGLISH.  FRACTURE TESTING FRACTURE STRUCTURES STRUCTURES STRUCTURES STRUCTURES STRUCTURAL COMPONENTS SHIPS, DESIGN DESIGN, SHIPS STRUCTURAL COMPONENTS STRUCTURA			
AUTOMATIC WELDING, OCT 1960, P. 1-8 THIS IS A USEFUL ARTICLE ON BOTH DESIGN PHILOS OPHY OF WELDED STRUCTURES AND ON DESIGN PHILOS OPHY OF WELDED STRUCTURES AND ON DESIGN OF GOT MTS AND OTHER STRUCTURAL DETAILS FROM THE VIEW TOTAL IN ENGLISH.  POINT OF SAPETY AGAINST LOW STRESS BRITTLE PRA CTURE. IN ENGLISH.  FRACTURE TESTING TESTING, PRACTURE TESTING, SHIPS SHIPS, DESIGN TOTAL THE STRUCTURAL COMPONENTS THUS SHIPS, STRUCTURAL COMPONENTS THUS SHIPS, STRUCTURAL COMPONENTS THE STRU			
THIS IS A USEFUL ARTICLE ON BOTH DESIGN PHILOS OPHY OF WELDED STRUCTURES AND ON DESIGN OF JOI OPHY OF WELDED STRUCTURES AND ON DESIGN OF JOI MTS AND OTHER STRUCTURAL DETAILS FROM THE VIRW 55101 FOR THIS IS A BENETY AGAINST LOW STRESS BRITTLE FRA CTURE. IN ENGLISH.  FRACTURE TESTING FRACTURE FRACTURE FRACTURE FRACTURE SSIDG FRACTURES SHIPS, DESIGN DESIGN, SHIPS SHIPS, STRUCTURAL COMPONENTS SHIPS, STRUCTURAL COMPONENTS STRUCTURAL COMPONEN			
OPHY OF WELDED STRUCTURES AND ON DESIGN OF JOI  MTS AND OTHER STRUCTURAL DETAILS FROM THE WIRW  55101  POINT OF SAFETY AGAINST LOW STRESS BRITTLE PRA  CTURE. IN ENGLISH.  FRACTURE TESTING  TESTING, FRACTURE  STRUCTURES  STRUCTURES  SHIPS, DESIGN  DESIGN, SHIPS  SHIPS, STRUCTURAL COMPONENTS  SHIPS, STRUCTURAL COMPONENTS			100 mm 1
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### CTURE. IN ENGLISH.			
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SHIPS, DESIGN  DESIGN, SHIPS SHIPS, STRUCTURAL COMPONENTS STRUCTURAL COMPONENTS STRUCTURAL COMPONENTS, SHIPS STRUCTURAL COMPONENTS, SHIPS S5102 RAEVSKII,G.V. CERTAIN PROBLEMS IN DESIGNING WELDED STRUCTU RES.= AUTOMATIC WELDING, JUN 1962, P. 5-10 THIS IS A GENERAL ARTICLE OF THE PHILOSOPHY OF DESIGN OF WELDED STRUCTURES. SPECIAL ATTENT ON IS PAID TO THE INTERRELATION BETWEEN WELDIN G TECHNIQUES USED IN THE FABRICATION BETWEEN WELDIN SHIPS DESIGN. IN ENGLISH. SS102 SOS SHIPS DESIGN SS102 TOS WELDING TECHNIQUES SS102 TOS WELDING TECHNIQUES SS102 TOS WELDING TECHNIQUES SS102 TOS WELDING TECHNIQUES SS102 TOS  TOS  SS102 TOS  SS102 TOS  TOS  SS102 TOS  TOS  SS102 TOS  TOS  TOS  TOS  SS102 TOS  TOS  TOS  TOS  TOS  TOS  TOS  TOS			
DESIGN, SHIPS SHIPS, STRUCTURAL COMPONENTS STRUCTURAL COMPONENTS, SHIPS STRUCTURAL COMPONENTS, SHIPS STRUCTURAL COMPONENTS, SHIPS S5102  RABYSKII,G.V. CERTAIN PROBLEMS IN DESIGNING WELDED STRUCTU  RES.= AUTOMATIC WELDING, JUN 1962, P. 5-10  THIS IS A GENERAL ARTICLE ON THE PHILOSOPHY OF DESIGN OF WELDED STRUCTURES, SPECIAL ATTENTI S5102  ON IS PAID TO THE INTERRELATION BETWEEN WELDIN G TECHNIQUES USED IN THE PARRICATION PROCESS A S5102  SHIPS DESIGN. IN ENGLISH. S5102  TOS WELDING TECHNIQUES S5102  TOS WELDING TECHNIQUES  S5102  TOS WELDING TECHNIQUES  S5102  TOS  TOS  TOS  TOS  TOS  TOS  TOS  TO			The state of the s
SHIPS, STRUCTURAL COMPONENTS  STRUCTURAL COMPONENTS, SHIPS  55102  RAEVSKII,G.V.  CERTAIN PROBLEMS IN DESIGNING WELDED STRUCTU  RES.=  AUTOMATIC WELDING, JUN 1962, P. 5-10  THIS IS A GENERAL ARTICLE ON THE PHILOSOPHY OF  DESIGN OF WELDED STRUCTURES, SPECIAL ATTENTY  ON IS PAID TO THE INTERRELATION BETWEEN WELDIN  G TECHNIQUES USED IN THE PABRICATION PROCESS A  BD DESIGN. IN ENGLISH.  S5102  505  SHIPS DESIGN  DESIGN, SHIPS  WELDING TECHNIQUES  55102  703  WELDING TECHNIQUES			
STRUCTURAL COMPONENTS, SHIPS  55102  RABVSKII,G.V.  CERTAIN PROBLEMS IN DESIGNING WELDED STRUCTU  RES.=  AUTOMATIC WELDING, JUN 1962, P. 5-10  THIS IS A GENERAL ARTICLE ON THE PHILOSOPHY OF  DESIGN OF WELDED STRUCTURES, SPECIAL ATTRIFT  ON IS PAID TO THE INTERRELATION BETWEEN WELDER  BY DESIGN. IN ENGLISH.  S5102  503  G TECHNIQUES USED IN THE PABRICATION PROCESS A  S5102  504  BD DESIGN. IN ENGLISH.  S5102  505  SHIPS DESIGN  55102  703  WELDING TECHNIQUES  55102  703			The second secon
S5102 55102 071  RABVSKII,G.V. 55102 101  CERTAIN PROBLEMS IN DESIGNING WELDED STRUCTU 55102 201  RES.= 55102 201  AUTOMATIC WELDING, JUN 1962, P. 5-10 55102 251  THIS IS A GENERAL ARTICLE ON THE PHILOSOPHY OF 55102 501  DESIGN OF WELDED STRUCTURES, SPECIAL ATTRICT 55102 502  ON IS PAID TO THE INTERRELATION BETWEEN WELDIN 55102 503  G TECHNIQUES USED IN THE PARRICATION PROCESS A 55102 508  ND DESIGN. IN ENGLISH. 55102 505  SHIPS DESIGN 55102 701  DESIGN, SHIPS WELDING TECHNIQUES 55102 703			
RABVSKII,G.V.  CERTAIN PROBLEMS IN DESIGNING WELDED STRUCTU  RES.=  AUTOMATIC WELDING, JUN 1962, P. 5-10  THIS IS A GENERAL ARTICLE ON THE PHILOSOPHY OF  DESIGN OF WELDED STRUCTURES, SPECIAL ATTENTY  ON IS PAID TO THE INTERRELATION BETHERN WELDIN  G TECHNIQUES USED IN THE PABRICATION PROCESS A  SD DESIGN. IN ENGLISH.  SHIPS DESIGN  DESIGN, SHIPS  WELDING TECHNIQUES  S5102  703	· · · · · · · · · · · · · · · · · · ·		3,10,633,44
CERTAIN PROBLERS IN DESIGNING WELDED STRUCTU 55102 201 RES.= AUTOMATIC WELDING, JUN 1962, P. 5-10 55102 251 THIS IS A GENERAL ARTICLE OF THE PHILOSOPHY OF 55102 501 DESIGN OF WELDED STRUCTURES, SPECIAL ATTENTY 55102 502 ON IS PAID TO THE INTERRELATION BETWEEN WELDIN 55102 503 G TECHNIQUES USED IN THE PABRICATION PROCESS A 55102 508 WD DESIGN. IN ENGLISH. 55102 701 DESIGN, SHIPS WELDING TECHNIQUES  **SHIPS** **SHI			
RES.= AUTOMATIC WELDING, JUN 1962, P. 5-10 THIS IS A GENERAL ARTICLE ON THE PHILOSOPHY OF DESIGN OF WELDED STRUCTURES, SPECIAL ATTENT ON IS PAID TO THE INTERRELATION BETWEEN WELDIN G TECHNIQUES USED IN THE PARRICATION PROCESS A 55102 508 WD DESIGN. IN ENGLISH. SHIPS DESIGN DESIGN, SHIPS WELDING TECHNIQUES 55102 703			
AUTOMATIC WELDING, JUN 1962, P. 5-10 THIS IS A GENERAL ARTICLE ON THE PHILOSOPHY OF DESIGN OF WELDED STRUCTURES. SPECIAL ATTENTY ON IS PAID TO THE INTERRELATION BETWEEN WELDIN G TECHNIQUES USED IN THE PARRICATION PROCESS A S5102 508 WD DESIGN. IN ENGLISH. SHIPS DESIGN DESIGN, SHIPS WELDING TECHNIQUES 55102 703			
THIS IS A GENERAL ARTICLE OF THE PHILOSOPHY OF 55102 501 DESIGN OF WELDED STRUCTURES, SPECIAL ATTENTY 55102 502 ON IS PAID TO THE INTERRELATION BETWEEN WELDEN 55102 508 G TECHNIQUES USED IN THE PARRICATION PROCESS A 55102 508 ND DESIGN. IN ENGLISH. 55102 505 SHIPS DESIGN 55102 701 DESIGN, SHIPS 55102 701 RELDING TECHNIQUES 55102 703			
DESIGN OF WELDED STRUCTURES. SPECIAL ATTENTY 55102 502 ON IS PAID TO THE INTERRELATION BETWEEN WELDTY 55402 503 G TECHNIQUES USED IN THE PABRICATION PROCESS A 55102 505 WD DESIGN. IN ENGLISH. 55102 701 DESIGN, SHIPS WELDING TECHNIQUES 55102 703	THIS IS A GENERAL ARTICLE ON THE PHILOSOPHY OF		501
ON IS PAID TO THE INTERRELATION BETWEEN WELDTW 55.102 503 G TECHNIQUES USED IN THE PARRICATION PROCESS A 55.102 505 HD DESIGN. IN ENGLISH. 55.102 7.01 DESIGN, SHIPS RELDING TECHNIQUES 55.102 703	DESIGN OF WELDED STRUCTURES. SPECIAL ATTENTY	55102	
G TECHNIQUES USED IN THE PARRICATION PROCESS A 55102 508 WD DESIGN. IN ENGLISH. 55102 505 SHIPS DESIGN 55102 701 DESIGN, SHIPS 55102 703 WELDING TECHNIQUES 55102 703	ON IS PAID TO THE INTERRELATION BETWEEN WELDIN	5,510	7 200 100 100 100 100
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DESIGN, SHIPS RELDING TECHNIQUES 55102 708			The state of the s
RELDING TECHNIQUES 55102			- CANADA CONTRACTOR CONTRACTOR
			7.04
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STRUCTURES	55102	70:
SHIPS, STRUCTURAL COMPONENTS	<u>55102</u> 55102	700 70
STRUCTURAL COMPONENTS, SHIPS 55103	55102 55103	01
TROCHUN, I.T.	55103	10
THE PROBLEM OF CALCULATING THE STRENGTH OF C	55103	20
MPONENTS OF WELDED STRUCTURES.=	55103	20
AUTONATIC WELDING, MAY 1962, P. 41-46 -	<u>55103</u>	25
THIS IS A DISCUSSION ON REFERENCE 55089, WHERE	55103 55103	50 50:
WELDING STRESSES WERE ACCOUNTED FOR IN CALCUL ATION OF STRENGTH OF WELDED COMPONENTS. THE C	<u>55103</u> 55103	50:
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UNT WHEN CALCULATING STRESSES AND DEFORMATIONS	55103	50
IN COMPONENTS UNDER EXTERNAL LOAD.	55103	50
SHIPS DESIGN	55103	70
DESIGN, SHIPS	55103	70
VELDING TECHNIQUES	55103 55103	70. 70
TECHNIQUES, WELDING	55103 55103	70
SHIPS, STRUCTURAL COMPONENTS	55103	70
STRUCTURAL COMPONENTS, SHIPS	55103	70
5510)	55104	01
OKERBLON, N.O.	55104	10
CALCULATION OF THE ULTINATE STRENGTH OF WELD	55104 55104	<u>20</u> 20
ED RODS IN COMPRESSION. = AUTONATIC WELDING, JAN 1963, P. 43-47	55104 55104	25 25
THIS IS A DISCUSSION ON THE ASSESSMENT OF STAB	55104	50
LITY OF WELDED RODS UNDER COMPRESSIVE LOADS.	55104	50
IT IS SHOWN THAT IN SOME CASES TENSILE WELDIN	55104	50
G STRESSES, ACTING APART PROR THE CRATERL AXIS	55104	50
OF THE BAR, CAN ENHANCE STABILITY OF THE BAR	55104	50
CONSIDERABLE. IN ENGLISH.	55104 55104	50 70
SHIPS DESIGN DESIGN, SHIPS	55104	70
MEDDING TECHNIQUES	55104	70
TECHNIQUES, WELDING	55104	70
STRUCTURES	55104	70
SHIPS, STRUCTURAL COMPONENTS	55104	70
STRUCTURAL COMPONENTS, SHIPS	55104 55105	70 -01
SSIOS References	55105	10
SPICHRIN, T.A.	55105	10
IN APPROXIMATE CALCULATION OF SEASONAL TIME	55105	20
INTERVALS FOR OPERATION OF ICEBREAKERS BY REPE	55105	20
ATED INPACTS IN A CONTINUOUS ICE COVERAGE	55105	» 2(
TRUDY ARKT. 1 ANTARKT. NAUCH. ISSLED. INST. 25	55105 55105	25 25
7, 1967, P. 73-77 THIS IS A SHORT BUT DETAILED ARTICLE ON QUANTI	55105 55105	50
TATIVE EVALUATION OF SEASONAL INTERVALS WHEN C	55105	5(
CHTINUOUS WORK BY REPEATED IMPACTS BECOMES MEC	55105	50
ESSARY. IT IS POSSIBLE TO EVALUATE SUCH INTER	s 55105	5(
WALS FOR ANY TYPE OF ICEBERAKER AND FOR ANY RE	55105	50
GION PROVIDING THAT INITIAL DATA ARE KNOWN. T	55105 55105	50
EANSLATION RECOMMENDED.	55105 55105	50 70
ICEBREAKERS, HOTTON NOTION, ICEBREAKERS	55105	70
ICABBEAKERS, OPERATION	55105	7
OPERATION, ICEBREAKERS	55105	7(
TCABREAKING METHODS	55105	7
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SCHIFF UND HAFEN, 10, MAR 1958, P. 169-180 THIS IS A DETAILED ARTICLE ON THE TITLE TOPIC.  IT INCLUDES MANY EXPERIMENTAL DATA ON RESIST ANCE OF PLATES AND BARS DURING HOTION IN WATER AT VARIOUS TEMPERATURES AND AT VARIOUS ANGLES BETWEEN THE PLANE OF THE PLATE AND DIRECTION OF HOTION. APPLICATIONS IN RUDDER DESIGN AND IN OTHER ASSOCIATED AREAS ARE HENTIONED. TRANS SLATION OPTIONAL. RESISTANCE (FLUID DYNAMICS) SHIPS, RUDDERS RUDDERS, SHIPS 55108 TIEDEMANN,J. THE ICEBREAKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.= SCHIFF UND HAFEN 10, FEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 N, BREADTH 19.40 N, DRAUGHT 7.20 N, DEPTH 7.15 N. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5107 5107 5107 5107 5107 5107	203 251 501 502 503 504
SCHIFF UND HAFEN, 10, MAR 1958, P. 169-180  THIS IS A DETAILED ARTICLE ON THE TITLE TOPIC.  IT INCLUDES MANY EXPERIMENTAL DATA ON RESIST ANCE OF PLATES AND BARS DURING HOTION IN WATER AT VARIOUS TEMPERATURES AND AT VARIOUS ANGLES BETWEEN THE PLANE OF THE PLATE AND DIRECTION OF HOTION. APPLICATIONS IN RUDDER DESIGN AND IN OTHER ASSOCIATED AREAS ARE HENTIONED. THAN SLATION OPTIONAL. RESISTANCE (FLUID DYNAMICS) SHIPS, HUDDERS RUDDERS, SHIPS 55108 TIEDEMANN,J. THE ICEBREAKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.= SCHIFF UND HAFEN 10, FEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 N, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5107 5107 5107 5107 5107	251 501 502 503 504
THIS IS A DETAILED ARTICLE ON THE TITLE TOPIC.  IT INCLUDES MANY EXPERIMENTAL DATA ON BESIST ANCE OF PLATES AND BARS DURING MOTION IN WATER AT VARIOUS TEMPERATURES AND AT VARIOUS ANGLES BETWEEN THE PLANE OF THE PLATE AND DIRECTION OF MOTION. APPLICATIONS IN RUDDER DESIGN AND IN OTHER ASSOCIATED AREAS ARE MENTIONED. TRANS SLATION OPTIONAL. RESISTANCE (PLUID DYNAMICS) SHIPS, RUDDERS RUDDERS, SHIPS 55108 TIEDEMANN,J. THE ICEBREAKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.= SCHIFF UND HAFEN 10, FEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 H, DRAUGHT 7.20 M, DEPTH 7.15 H. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5107 5107 5107 5107	501 502 503 504
IT INCLUDES MANY EXPERIMENTAL DATA ON BESIST ANCE OF PLATES AND BARS DURING MOTION IN WATER AT VARIOUS TEMPERATURES AND AT VARIOUS ANGLES BETWEEN THE PLANE OF THE PLATE AND DIRECTION OF MOTION. APPLICATIONS IN RUDDER DESIGN AND IN OTHER ASSOCIATED AREAS ARE MENTIONED. TRANS SLATION OPTIONAL. RESISTANCE (PLUID DYNAMICS) SHIPS, RUDDERS RUDDERS, SHIPS 55108 TIEDEMANN,J. THE ICEBREAKER "ODEN" WITH DIESEL-BLECTRIC P ROPULSION.= SCHIFF UND HAFEN 10, FEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FIELAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 N, BREADTH 19.40 N, DRAUGHT 7.20 N, DEPTH 7.15 N. IT HAS TWO FORWARD AND TWO AFT PROPELIERS. PLANS PHOTOGRAPHS AND DE	5107 5107 5107	502 503 504
ANCE OF PLATES AND BARS DURING HOTION IN WATER AT VARIOUS TEMPERATURES AND AT VARIOUS ANGLES BETWEEN THE PLANE OF THE PLATE AND DIRECTION  OF MOTION. APPLICATIONS IN RUDDER DESIGN AND IN OTHER ASSOCIATED AREAS ARE MENTIONED. TRANS SLATION OPTIONAL. RESISTANCE (FLUID DYNAMICS) SHIPS, HUDDERS RUDDERS, SHIPS 55108 TIEDEHANN, J. THE ICEBERKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.= SCHIFF UND HAFEN 10, FEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBERAKERS IN FINLAND AND ON THE TITLE ICEBERAKER. THIS ICEBERAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 N, BREADTH 19.40 N, DRAUGHT 7.20 N, DEPTH 7.15 N. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DR	5107 5107	503 504
AT VARIOUS TEMPERATURES AND AT VARIOUS ANGLES BETWEEN THE PLANE OF THE PLATE AND DIRECTION  OF MOTION. APPLICATIONS IN RUDDER DESIGN AND IN OTHER ASSOCIATED AREAS ARE MENTIONED. THAN SLATION OPTIONAL. RESISTANCE (FLUID DYNAMICS) SHIPS, RUDDERS RUDDERS, SHIPS 55108 TIEDEMANN,J. THE ICEBREAKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.= SCHIFF UND HAFFN 10, FEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE HEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 N, BREADTH 19.40 N, DRAUGHT 7.20 N, DEPTH 7.15 N. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5107	504
BETWEEN THE PLANE OF THE PLATE AND DIRECTION  OF MOTION. APPLICATIONS IN RUDDER DESIGN AND IN OTHER ASSOCIATED AREAS ARE HENTIONED. TRANS SLATION OPTIONAL. RESISTANCE (FLUID DYNAMICS) SHIPS, RUDDERS RUDDERS, SHIPS 55108 TIEDEMANN,J. THE ICEBREAKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.= SCHIFF UND HAFFN 10, FEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE		
OF MOTION. APPLICATIONS IN RUDDER DESIGN AND IN OTHER ASSOCIATED AREAS ARE MENTIONED. TRANS SLATION OPTIONAL. RESISTANCE (PLUID DYNAMICS) SHIPS, HUDDERS RUDDERS, SHIPS 55108 TIEDEHANN,J. THE ICEBREAKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.= SCHIFF UND HAFEN 10, PEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 B, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5107	505
IN OTHER ASSOCIATED AREAS ARE RESTIONED. TRANSLATION OPTIONAL. RESISTANCE (FLUID DYNAMICS) SHIPS, HUDDERS RUDDERS, SHIPS 55108 TIEDEHANN,J. THE ICEBREAKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.= SCHIFF UND HAFEN 10, FEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS THO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE		
SLATION OPTIONAL. RESISTANCE (PLUID DYNAMICS) SHIPS, RUDDERS RUDDERS, SHIPS 55108 TIEDEMANN,J. THE ICEBREAKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.= SCHIPF UND HAFEN 10, PEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AWD ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5107	506
RESISTANCE (FLUID DYNAMICS)  SHIPS, RUDDERS RUDDERS, SHIPS  55108 TIEDEMANN,J.  THE ICEBREAKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.=  SCHIPF UND HAFEN 10, PEB 1958, P. 87-99  THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL  ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500  HP. LENGTH 83.35 N, BREADTH 19.40 N, DRAUGHT 7.20 N, DEPTH 7.15 N. IT HAS THO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5107	507
SHIPS, HUDDERS RUDDERS, SHIPS 55108 TIEDEMANN,J.  THE ICEBREAKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.= SCHIFF UND HAFFN 10, FEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AWD ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5107	508
RUDDERS, SHIPS  55108 TIEDEHANN,J.  THE ICEBREAKER "ODEN" WITH DIESEL-BLECTRIC P  ROPULSION.=  SCHIFF UND HAFEN 10, FEB 1958, P. 87-99  THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE  VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND  ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL  ONGS INTO THE HEDIUM "SEA" GROUP AND HAS 10500  HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT  7.20 M, DEPTH 7.15 M. IT HAS THO FORWARD AND  TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5107	701
TIEDEMANN, J.  THE ICEBREAKER "ODEN" WITH DIESEL-ELECTRIC P ROPULSION.=  SCHIFF UND HAPEN 10, PEB 1958, P. 87-99  THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500  HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS THO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5107	702
TIEDEMANN,J.  THE ICEBREAKER "ODEN" WITH DIESEL-BLECTRIC P ROPULSION.=  SCHIFF UND HAFEN 10, PEB 1958, P. 87-99  THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500  HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS THO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5107	703
THE ICEBREAKER "ODEN" WITH DIESEL-BLECTRIC P ROPULSION.= SCHIFF UND HAFEN 10, FEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AWD ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS THO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5108	911
ROPULSION.=  SCHIFF UND HAFEN 10, FEB 1958, P. 87-99  THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE  VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AWD  ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL  ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500  HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT  7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND  TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5108	101
SCHIFF UND HAFEN 10, PEB 1958, P. 87-99 THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5108	201
THIS IS A VERY DETAILED ARTICLE BOTH ON THE DE VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5108	202
VELOPMENT TRENDS IN ICEBREAKERS IN FINLAND AND ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5108	251
ON THE TITLE ICEBREAKER. THIS ICEBREAKER BEL ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500 HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5108	501
ONGS INTO THE MEDIUM "SEA" GROUP AND HAS 10500  HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5108	502
HP. LENGTH 83.35 M, BREADTH 19.40 M, DRAUGHT 7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5108	503 504
7.20 M, DEPTH 7.15 M. IT HAS TWO FORWARD AND TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5108	
TWO AFT PROPELLERS. PLANS PHOTOGRAPHS AND DE	5108	505 506
	i5108 i5108	507
TAILED DESCRIPTIONS ARE INCLUDED.		508
SHEER SHOPE HOUSE HOUSE TO THE SHOPE TO THE SHOPE TO THE SHAPE TO THE	5108 5108	701
	5108	702
- Andrew Charles and the Control of		703
	55108	704
A A A A A A A A A A A A A A A A A A A		
	5108	705 706
- Carlo Carl	55108	001
	55108 55108	101
	5108 5108 5109	201
	5108 5108 5109 5109	
SUDPRONGIZ, LENINGRAD 1954, 396 PP.	5108 5108 5109 5109 5109	
	5108 5108 5109 5109	351
	5108 5108 5109 5109 5109	
	5108 5108 5109 5109 5109	
	5108 5108 5109 5109 5109	

A TO STATE OF THE STATE OF THE

THIS IS A COLLECTION OF SOME PAPERS BY A NOTED	55109	501
RUSSIAN AUTHORITY IN SHIPBUILDING. THE COLLE	55109	502
CTION IS DIVIDED INTO SEVERAL PARTS: GENERAL	55109	503
AND LOCAL STRENGTH OF THE HULL STRUCTURE, ARTI	55109	504
CLES ON SHIP THEORY, MISCELLANROUS TOPICS. TI	55109	505
TLE PAGES AND THE LIST OF CONTENTS WERE COPIED	55109	506
•	55109	507
HULL DESIGN	55109	701
DESIGN, HULL	55109	702
SHIPS DESIGN	55109	703
DESIGN, SHIPS	55109	704
55110	55110	011
BARTHEL, P.	55110	101
"THORA DAN" - "HELGA DAN" AND "ELGAREN" - NF	55110	201
W SPECIAL CARGO SHIPS BUILT BY STUELKEN SHIPYA	55110	202
RD IN HAMBURG.=	55110	203
SCHIFF AND HAFEN, APR 1957, P. 279-288	55110	251
THIS IS A DETAILED DESCRIPTION OF TWO IDENTICA	55110	501
L ICE-GOING CARGO SHIPS "THORA DAN" AND "HELGA	55110	502
DAN." LENGTH 350', BREADTH 52', DEPTH FROM T	55110	503
HE MAIN DECK 30', DRAUGHT 22', CAPACITY 5050 T	55110	504
S, CRUISING SPEED ABOUT 14 KNOTS, 4050 HP. EL	55110	505
GAREN IS A REGULAR CARGO SHIP OF LARGER CAPACI	55110	506
TY AND SPEED. THE FORMER TWO SHIPS MEET THE R	55110	507
EQUIREMENTS OF +100A1 CLASS OF LLOYD'S REGISTE	55110	508
R AND OF THE FINNISH ICE CLASS.	55110	509
ICE-GOING SHIPS	55110	701
SHIPS, ICE-GOING	55110	702
ICEBREAKING CARGO SHIPS	55110	703
CARGO SHIPS, ICEBREAKING	55110	704
THORA DAN CARGO SHIP	55110	705
CARGO SHIP THORA DAN	55110	706
HELGA DAN CARGO SHIP	55110	707
CARGO SHIP HELGA DAN	55110	708
ELGAREN CARGO SHIP	55110	709
CARGO SHIP ELGAREN	55110	710
<b>55111</b>	55111	011
MOGID, L. M.	55111	101
MODELING OF SHIP MOTION IN A CONTINUOUS ICE	55111	201
PIELD AND IN BROKEN ICR. =	55111	202
TRUDY LEN. KORAB. INST, 28, 1959, P. 45-62	55111	251
THIS IS A DETAILED AND EXTENSIVE ARTICLE ON TH	55111	501
E TITLE TOPIC. BOTH THEORETICAL AND EXPERIMPN	55111	502
TAL CONSIDERATIONS ARE INCLUDED. THE FOLLOWIN	55111	503
G MAIN TOPICS ARE DISCUSSED: IDEALIZED SCHEME	55111	504
OF ICEBREAKER MOTION IN CONTINUOUS ICE FIELD,	55111	505
CLASSIFICATION OF FORCES ACTING ON THE MOVING	55111	506
ICEBREAKER, SIMILARITY CRITERION FOR THE MOTI	55111	507
ON, CONDITIONAL SIMILARITY IN MODELING OF THE	55111	508
MOTION, MODELING OF MOTION IN BROKEN ICE. MEA	55111	509
SUREMENTS ON MODELS ARE COMPARED WITH EXPERIME	55111	510
TIS ON A REAL ICPBREAKER AND IT IS SHOWN THAT	55111	511
THE ESTABLE HED SIMILARITY CRITERION PREDICTS	55111	512
WELL THE ACTUAL DEPENDENCE OF ICE RESISTANCE O	55111	513
M VELOCITY FROM HODEL MEASUREMENTS. TRANSLATI	55111	514
ON RECOMMENDED.	55111	515
ICEBREAKERS, DESIGN	55111	701
DESIGN, ICEBREAKERS	55111	702
ICEBREAKERS, NOTION	55111	703

. .

MOTICN, ICEBREAKERS	55111	704
RESISTANCE, ICE	55111	705
ICE PESISTANCE 55112	55111	706
TKACHUK, G.N.	<u>55112</u> 55112	<u>011</u> 101
INVESTIGATION OF VELOCITY FIELDS AND PRESSUR	55112	201
ES IN NICHES WHICH ARE OF RECTANGULAR PRISMATI	55112	202
C SHAPE.=	55112	203
TRUDY LEN. KURAB. INST, 28, 1959, P. 63-71	55112	251
THIS IS A PRIMARILY EXPERIMENTAL STUDY ON THE	55112	501
TITLE TOPIC. IT IS ATTEMPTED TO ESTABLISH THE	55112	502
INFLUENCE OF SHAPF OF A NICHE ON THE NATURE O	55112	503
F FLUID MOTION INSIDE. THREE MAIN ZONES WERE	55112	504
DETECTED AND DESCRIBED: A DISPLACEMENT ZONE O	55112	505
N THE OUTSIDE, A CORE ZONE AND A BOUNDARY LAYE	55112	506
R ZONE AT WALLS. HULL DESIGN	55112	507
DESIGN, HULL	55112 55112	701 702
ESPERIMENTAL METHODS	55112	702
METHODS, EXPERIMENTAL	55112·	703
55113	55113	011
HOOTBAAR, W.	55113	101
POLAR MOTOR SHIP "THALA DAN" .=	55113	201
SCHIFF UND HAFEN, DEC 1957, P. 1064-1066	55113	251
THIS IS A SHORT DESCRIPTION OF THE TITLE SHIP,	55113	501
WHICH IS A CARGO SHIP COMBINED WITH A PASSENG	55113	502
ER COMPARTMENT. LENGTH 75 M, BREADTH 13 M, DE	55113	503
PTH 7 M, DRAUGHT 6 M, CAPACITY 2150 TONS, 2020	55113	504
HP. THE SHIP SATISFIES THE HIGHEST CLASS OF	55113	505
LLOYD'S REGISTER AND OF THE PINNISH ICE CLASS.  ICE-GOING SHIPS	55113	506
SHIPS, ICE-GOING	55113 55113	701
ICEBREAKING CARGO SHIPS	<u>55113</u> 55113	702 703
CARGO SHIPS, ICEBREAKING	55113 55113	703
CARGO SHIP THALA DAN	55113	705
THALA DAN, CARGO SHIP	55113	706
55114	55114	011
VALISALMI, T.	55114	101
A FOWERFUL SEA RESCUE TUG. =	55114	201
SCHIFF UND HAFEN, NOV 1957, P. 942-950	55114	251
THIS IS A DETAILED ARTICLE ON A 1700 HP ICEBRE	55114	501
AKING TUG WHICH WAS CONSIDERED A PROTOTYPE POR	55114	502
ABOUT 15 SIMILAR SHIPS TO BE BUILT IN FINLAND	55114	503
LENGTH 61 M, BREADTH 11.5 M, DEPTH 5.5 M, D	55114 55110	504
RAUGHT 4.5 M, 1013 BRT, 239 NRT. IT SATISFIES THE I A ICE CLASS (FINLAND). IT HAS A PULLY	55114 55114	505
WELDED HULL STRUCTURE. ALL STRUCTURAL, DESIGN	55114 55114	506 507
AND EQUIPMENT ASPECTS ARE PULLY DESCRIBED.	55114	508
ICEBREAKING TUGS	55114	701
TUGS, ICEBREAKING	55114	701
TUGS CONSTRUCTION	55114	703
CONSTRUCTION, TUGS	55114	704
55115	55115	011
STEINEN, VON DEN, C.	55115	101
THE NATURAL STABILIZATION. =	55116	201
SCHIFF UND HAFEN, NOV 1957, P. 858-873.	55115	251
THIS IS AN EXTENSIVE ARTICLE ON SHIP STABILITY	55115	501
PROBLEMS. IT ATTEMPTS TO PRESENT SIMPLE MODE	55115	502
LS WHICH WOULD CONTRIBUTE RATHER TO PHYSICAL U	55115	503

\$ .. 7

NDERSTANDING. COMPLEX MATHEMATICAL DESCRIPTIO	55115	50
NS ARE AVOIDED AND REPLACED BY IDEALIZED GEOME	55115	50
TRICAL CONSIDERATIONS WHICH MIGHT BE EXPERIMEN	55115	50
TALLY VERIFTED.	55115	50
SHIPS DESIGN	55115	70
DESIGN, SHIPS	55115	<u>70</u>
SHIPS STABILITY	55115	70
STABILITY, SHIPS -	<u>55 1 15</u>	70
SHIPS MOTION	55115	70
MOTION, SHIPS 55116	<u>55115</u> 55116	70
LUGOVSKIJ, V. V.	55116 55116	10
APPLICATION OF APPROXIMATE METHODS OF NONLIN	55116	20
EAR MECHANICS TO THE THEORY OF SHIP ROLL ON WA	55116	20
VES.=	55116	20
TRUDY LEN. KORAB. INST. 22, 1958, P. 65-77	55116	25
THIS IS AN EXTENSIVE THEORETICAL ARTICLE WHICH	55116	<u> </u>
DEMONSTRATES THE USE OF SEVERAL APPROXIMATE A	55116	50
NEAR EQUATION OF ROLLING MOTION OF A SHIP ON R	55116	<u>5</u> 0
NALYTICAL METHODS TO THE SOLUTION OF THE NONLI	55116	50
EGULAR WAVES.	55116	50
SHIPS, MOTION	55116	70
MOTION, SHIPS	55116	70
SHIPS, STABILITY	55116	70
STABILITY, SHIPS	55116	70
MATHEMATICAL METHODS	55116	70
METHODS, MATHEMATICAL	55116	70
55117	55117	01
PLENTNEVA-MACHABELI, L. I.	55117	10
ON A SYSTEM OF EQUATIONS OF SHIP MOTION WHIC	55117	20
H ACCOUNTS FOR THE CONNECTION BETWEEN PITCHING	55117	20
, HORIZONTAL AND ROLLING MOTION. =	55117	20
TRUDY LEN. KORAB. INST, 22, 1958, P. 47-64	55117	25
THIS IS AN EXTENSIVE THEORETICAL ARTICLE WHICH	55117	50
GIVES THE DERIVATION OF EQUATIONS OF MOTION O	55117	50
F A SHIP IN THE GENERAL CASE. BOTH A FIRST OR	55117	50
DER AND A SECOND ORDER THEORIES ARE DEVELOPED	55117	50
AND SOLUTIONS OF THE RESULTING EQUATIONS OUTLI	55117	50
NED. TRANSLATION OPTIONAL.	55117	50
SHIPS, MOTION	<u> 55117</u>	70
MOTION, SHIPS	55117	70
SHIPS, DESIGN	55117	70
DESIGN, SHIPS	55117	70
SHIPS, STABILITY	55117	70
STABILITY, SHIPS	55117 55119	70
55118	<u>55118</u>	01
IVANOV, JA.A. SOME PROBLEMS CONCERNING DESIGN OF GYROSCOPI	55118 55118	. 10 20
C DEVICES FOR FORCED ROLLING AND PITCHING EXPE	<u>55118</u> 55118	20
RIMENTS ON SHIP MODELS.=	55118 55118	20
TRUDY LEN. KORAB. INST., 22, 1958, P. 35-46	55118 55118	25 25
THIS IS AN EXTENSIVE ARTICLE ON THE TITLE TOPI	55118	50
C. BASIC THEORY OF GYROSCOPIC DEVICES IS REVI	55118	<del>50</del>
EWED AND A SIMPLE SCHEME OF A DEVICE WITH TWO	55118	50 50
GYROSCOPES IS GIVEN. NUMERICAL EXAMPLES OF DE	55118	50
SIGN OF SUCH DIVICES ARE WORKED OUT. A DETAIL	55118	50 50
ED DESCRIPTION OF A WORKING MODEL IS ALSO PRES	55118	50
ENTED.	55118	50 50
EXPERIMENTAL METHODS	55118	70
NWE WOTHER THE CHECKAN	3.7110	, 0

٠.

: .

٠.

METHODS, FXPERIMENTAL	55118	702
SHIPS, MOTTLS	55118	703
MODELS. SHIPS	55118	704
SHIPS, MOTION	55118	705
MOTION, SHIPS	55118	706
SHIPS, STABILITY	55118	707
STABILITY, SHIPS	55118 55118	708
55119 —	55119	011
SOBOLEV, G.V. DAMPING OF ROLLING MOTION OF A GOING SHIP.=	55119 55119	101 201
TRUDY LEN. KORAB. INST. 22, 1958, P. 23-34	55119	251
THIS IS AN EXTENSIVE THEORETICAL ARTICLE ON TH	55119 55119	501
E TITLE TOPIC. AN ATTEMPT IS MADE TO OBTAIN A	55119	502
N EXPRESSION FOR THE INCREASE OF THE DAMPING C	55119	503
OFFFICIENT OF ROLLING FOR A GOING SHIP. THE I	55119	504
NFLUENCE OF DRIFT AND SWERVE IS ACCOUNTED FOR	55119	505
AND A DIFFERENTIAL EQUATION OF THE ROLLING MOT	55119	506
ION IS DERIVED. ALSO, THE DAMPING CONTRIBUTIO	55119	507
N OF WAVES IS CONSIDERED. TRANSLATION OPTIONA	55119	508
L.	55119	509
SHIPS, MOTION	55119	701
MOTION, SHIPS	55119	702
SHIPS, STABILITY	55119	703
STABILITY, SHIPS	55119	704
55120 BOSENION V 2	55120 55120	011 101
POSTNOV, V. A. ON DETERMINATION OF FREQUENCIES OF FREELY SU	55120	201
PPORTED GRILLAGES, INCLUDING THE EFFECT OF SHE	55120	202
AR. =	55120	203
TRUDY LEN. KORAB. INST., 22, 1958, P. 119-129	55120	251
THIS IS AN EXTENSIVE THEORETICAL ARTICLE ON TH	55120	501
E TITLE TOPIC. A MFTHOD IS OUTLINED WHICH PER	55120	502
MITS EXACT DETERMINATION OF FREQUENCIES OF FRE	55120	503
E VIBRATIONS OF A FLAT GRILLAGE. THE EFFFCT O	55120	504
F SHEAR DEFORMATIONS IS ACCOUNTED FOR. IT IS	55120	505
ASSUMED THAT ALL TRANSVERSE BEAMS ARE IDENTIC	55120	506
AL BUT LONGITUDINAL BEAMS MAY BE NOT. ALL BEA	55120	507
MS ARE SIMPLY SUPPORTED AT ENDS. IT IS SHOWN	55120	508
THAT SHEAR DEFORMATIONS HAVE GREAT INFLUENCE O	55120	509
N THE VALUE OF FREQUENCY. A NUMERICAL EXAMPLE	<u> 55120</u>	510 511
IS WORKED OUT. TRANSLATION OPTIONAL. SHIPS DESIGN	55120 55120	701
DESIGN, SHIPS	55120	702
SHIPS, STRUCTURAL COMPONENTS	55120	703
STRUCTURAL COMPONENTS, SHIPS	55120	704
STRUCTURES	55120	705
55121	55121	011
POSTNOV, V. A.	55121	101
THE INFLUENCE OF SUPPORTS OF LONGITUDINAL BE	55121	201
AMS ON STABILITY OF SHIP GRILLAGES.=	55121	202
TRUDY LEN. KORAB. INST., 22, 1958, P. 131-139	55121	251
BOTH SYMETRIC AND NONSYMETRIC BUCKLING MODES O	55121	501
F A GRILLAGE ARE INVESTIGATED UNDER THE ASSUMP	55121	502
TION THAT THE ENDS OF LONGITUDINAL BRAMS ARE B	<u>55121</u>	503
UILT-IN INTO ELASTIC SUPPORTS. DIFFRENTIAL EQ	55121 55121	504
UATIONS FOR DEFLECTION OF SUCH BEAMS ARE DERIV	55121 55121	505 506
ED, SOLVED AND STABILITY IS INVESTIGATED. NUM	55121 551.1	505 507
ERICAL EXAMPLES ARE PRESENTED, TRANSLATION OP	55121	508
TIONAL.	33121	200

李續

SHIPS DESIGN	55121	7(
DESIGN, SHIPS	55121	7(
SHIPS, STRUCTURAL COMPONENTS	55121	70
STRUCTURAL COMPONENTS, SHIPS	55121	7(
STRUCTURES	55121	70
55122	55172	0
SOLDATOV, N. P.	55122	1 (
ON SUMMATION OF STRESSES IN BILGE GRIELAGES.	5512 <u>2</u>	20
3	55122	20
TRUDY LEN. KORAB. INST., 22, 1958, P. 141-153	55122	2'
THIS IS AN EXTENSIVE THEORETICAL ARTICLE ON LO	55122	5(
CAL STRENGTH OF BILGE GRILLAGES. IT IS CONCLU	55122	5
DED THAT THERE IS ONLY A SMALL INFLUENCE OF TH	55122	5
E OVFRALL BENDING ON THE LOCAL BENDING AND THE	55122	5
REPORE, BOTH MAY BE CONSIDERED AS INDEPENDENT.	55122	5
HOWEVER, STRESSES FROM LOCAL BENDING SHOULD	55122	5
INCLUDE THE INFLUENCE OF BENDING OF TRANSVERSE	55122	5
BEAMS. EVEN ELEMENTARY ESTIMATES OF THE CONT	55122	5
RIBUTION FROM EEAMS YIELD A REASONABLY CORRECT	55122	5
RESULT. TPANSLATION OPTIONAL.	55122	5
SHIPS DESIGN	55122	7
DESIGN, SHIPS	55122	7
SHIPS, STRUCTURAL COMPONENTS	55122	7
STRUCTURAL COMPONENTS, SHIPS	55122	7
STRUCTURES	55122	7
55123	55123	0
WINOGRADOW, I. W.	55123	1
THE ICEPREAKER.=	55123	2
SCHIFF UND HAFFN, JAN 1958, P. 54-64	55123	2
THIS IS THE FIRST OF TWO PARTS (SEE 55124) OF	55123	5
A LONGER ARTICLE ON ICEBREAKERS. THE HEADING	55123	5
INCLUDES-PROPERTIES OF AN ICEBREAKER, ANALYSIS	55123	5
OF ITS WORK IN AN ICE FIELD. THIS INCLUDES A	55123	5
LONG THOROUGH DESCRIPTION OF FORCES AND ELEME	55123	5
NTS OF AN ICEBREAKER, DETERMINATION OF THE ICE	55123	5
BREAKING FORCE AS A FUNCTION OF DRAUGHT AND PR	55123	5
OPELLER CAPACITY, DETERMINATION OF A SCALE FAC	55123	5
TOR FOR COMPARISON OF THE ICEBREAKING CAPACITY	55123	5
OF ICEBREAKERS. THOSE FACTORS ARE EVALUATED	55123	5
FOR 27 ICFBREAKERS IN OPERATION. RELATION OF	55123	Ś
HULL ELEMENTS ON ICEBREAKING PERFORMANCE. A S	55123	5
HORT REVIEW OF PROPERTIES OF ICEBREAKERS. TRA	55123	5
NSLATION RECOMMENDED.	55123	<u></u> 5
ICEBREAKERS, DESIGN	55123	7
DESIGN, ICEBREAKERS	55123	7
ICEBREAKERS, STRUCTURAL COMPONENTS	55123	7
STRUCTURAL COMPONENTS, ICEBREAKERS	55123	<del></del>
	55123	7
ICEBREAKING THEORY	55123	<del></del> 7
THEORY, ICEBREAKING	55123	7
ICEBREAKERS, HISTORY	55123	$-\frac{7}{7}$
HISTORY, ICEBREAKERS	55124	ó
55124	55124	1
WINOGRADOW, I. W.		
THE ICEBREAKER.=	55124	2
SCHIFF UND HAFEN, MAR 1958, P. 202-212	55124	2
THIS IS THE SECOND PART OF REFERENCE 55123. I	55124	5
T INCLUDES DISCUSSION OF THE FOLLOWING TOPICS:	55124	5
BASIC RULES FOR SELECTION OF HULL SHAPE FOR	55124	5
AN ICEBREAKUR, CLASSIFICATION, SELECTION OF PR	55124	5

provided a service

			(
0_	55127	55127	011
	POPOY, G. A.	55127	101
	METHOD OF INVESTIGATION OF THE DYNAMICS OF T	<u> 55127</u>	201
0	RE SYSTEM: REMOTE AUTOMATIC CONTROL MAIN E	55127	202
	NGINES PROPELLERS SHIP'S HULL. = TRUDY C.N.I.I. MORSKOGO FLOTA, 75, 1966, P. 88	<u>55127</u> 55127	203 25,1
	-98	55127 55127	25,1
· •	THIS IS A DETAILED THEORETICAL ARTICLE. THE D	55127	501
	YNAMIC PROPERTIES OF THE MAIN ENGINE ARE INVES	55127	502
0	TIGATED FIRST. IT IS NOTED THAT THE USUAL APP	55127	503
	ROACH TO THIS PROBLEM, WITHIN THE FRAMEWORK OF	55127	504
	A REGULATION SYSTEM IS NOT SUITABLE HERE. IN	55127	505
0	STEAD, THE MAIN ENGINE IS CONSIDERED TO BE A P	55127	506
4	ART OF A CONTROLLED SYSTEM AND, THE EQUATION O	55127	507
	F MOTION OF THE ENGINE ACCOUNTS FOR ALL TRANSI	55127	508
:0	ENT WORKING MODES. THEN, THE ARTICLE OUTLINES	5512 <b>7</b>	509
	A RETHOD OF INVESTIGATION OF DYNAMICS OF THE REMOTE AUTOMATIC CONTROL UNIT AS A PART OF THE	<u>55127</u> 55127	<u>510</u> 511
Δ	SHIP SYSTEM WHICH INCLUDES ALSO THE MAIN ENGI	55127 55127	512
, —	NES, THE SCREW PROPELLERS AND THE HULL. TRANS	55127	513
-	LATION OPTIONAL.	55127	514
0	SHIPS, SYSTEMS	55127	701
;	SYSTEMS, SHIPS	55127	702
4	SHIPS, PROPULSION SYSTEMS	55127	703
0_	PROPULSION SYSTEMS, SHIPS	55127	704
₹ •	SYSTEMS, CONTROL	55127	705
<u>:</u>	CONTROL SYSTEMS	<u> 55127</u>	706
	55128 PETROV, E. JU.	55128 5512ถ	011
· —	DETERMINATION OF THE HULL-RISE OF AN ICEBREA	55128	201
0	KER FORCING THROUGH HEAVY ICE.=	55128 55128	202
	PROBLEMY ARKT. I ANTARKT. 24, 1966, P. 68-72	55128	251
<u>.</u>	THIS IS A DETAILED THRORETICAL STUDY ON THE FO	55128	501
0	RCES WHICH ACT ON THE ICEBREAKER IN A NARROW C	55128	502
<u> </u>	HANNEL IN ICE. THE WEDGING CONDITIONS ARE ANA	55128	<u> 563</u>
1	. LYZED AND THE WEDGING FORCES ARE RELATED TO TH	55128	504
<b>[0</b>	E MAGNITUDE OF EMERGENCE OF THE ICEBREAKER HUL	<u>55128</u>	<u>505</u>
***	L AFTER IMPACT, WHICH IS FOUND AS A FUNCTION O	55128 55128	506 507
	F SHIP VELOCITY BEFORE IMPACT, AND OF ICE THIC KNESS. HENCE, THE WEDGING FORCES CAN BE RELAT	55128	508
0	ED TO SHIP VELOCITY AND TO PARTICULAR ICE COND	55128 55128	509
·	ITIONS. A SHORT EXAMPLE IS WORKED OUT. TRANS	55128	510
· O	LATION RECOMMENDED,	55128	511
_	ICEBREAKERS, MOTION	55128	701
<b></b>	MOTION, ICEBREAKERS	55128	702
0	ICEBREAKING THEORY	55128	703
<u> </u>	THEORY, ICEBREAKING	55128	704
	ICEBREAKERS, LOADING	55128	705
[O	LOADING, ICEBREAKERS	<u>55128</u>	<u>706</u>
Ĭ	55129	· 55129 55129	011 101
	BOGDANOVA, Z. V. MIROSHNICHENKO, I. P.	55129	102
0	SHEBALOV, A. I.	55129	102
<b>!</b> —	MALOVA, V. F.	55129	104
(O)	IMPROVEMENT OF NAVIGATION PROPERTIES OF SHIP	55129	201
<b>.</b> —	S THROUGH PERFECTION OF HULL CONTOURS.=	55129 .	. 202
	<u> </u>	•	Į

<b>)</b> -			
<b>)</b>	TRUDY, C.N.I.I. MOFSKOGO PLOTA, 78, 1967, P. 7	55129	251
	9-102	55129	252
	THIS IS AN EXTENSIVE REPORT ON EXPERIMENTS WHI	55129	501
<u>ب</u>	CH WERE PERFORMED IN THE LENINGRAD SHIPRUILDIN	55129	502
	G INSTITUTE. IN PARTICULAR, THE DOME-SHAPED P	55129	503
	ORMS OF BOW AND STERN CONFOURS WERE INVESTIGAT	55129	504
9	ED. IT WAS FOUND THAT THE SHIP SPEED CAN BE I	55129	505
	NCREASED BY 0.40 TO 0.85 KNOTS, FOR A GIVEN PR	55129	506
	OPULSION CAPACITY. OR, THE CAPACITY OF THE MA	55129	507
<b>"</b>	IN ENGINE MAY BE REDUCED BY 8 TO 14 PERCENT AN	55129	<u> 508</u>
	D THE SPEED MAINTAINED.	55129	509
-	SHIPS, DESIGN .	<u>55129</u>	701
	DESIGN, SHIPS	55129	702
_	HULL DESIGN	55129	703
	DESIGN, YULL	55129	704
<b></b>	SHIPS MCTION	55129	705
	MOTION, SHIPS	55129	706
	<b>55130</b>	<u>55130</u>	011
Ì	MINEVICH, A. JA.	55130	101
_	ON THE PROSPECTS OF THE USE OF AIR-CUSHION V	<u> 55130</u>	201
	EHICLES IN THE POLAR REGIONS.=	55130	202
<b>)</b>	BJULLETEN SOV. ANTARKT. EKSPEDICII, 62, 1967.	55130	251
	P. 91-92	55130	252
	THIS IS A SHORT REVIEW ON SOME RECENT MEETINGS	<u> 55130</u>	<u>501</u>
<b>)</b>	WHICH WERE DEALING WITH THE TITLE TOPIC.	55130	502
	ARCTIC RESEARCH	55130	701
-	55131	55131	011
<b>9</b>	POPOV, JU. N.	55131	101
	RYVLIN, A. JA.	55131	102
	ON THE PROBLEM OF BOW HULL CONTOURS OF ICE-G	55131	201
	OING CARGO SHIPS.=	55131	202
	PROBLEMY ARKT, I ANTARKT, 26, 3967, P. 108-109	55131	<u>251</u>
	THIS IS A SHORT REVIEW OF DEVELOPMENT OF A NEW	55131	501
<u> </u>	ANGUENA CLASS OF SOVIET CARGO SHIPS FOR SERVI	55131	502
	CE IN ARCTIC REGIONS. THE FIRST SHIP WAS CONS	55131	503
	TRUCTED IN 1962. LENGTH 133 M. BREADTH 18.9 M	55131	504
•	DISPLACEMENT 11,640 TONS, CAPACITY 5,000 TON	55131	505
	S. 7,200 HP. THIS SHIP IS INTENDED TO REPLACE	55131	506
-	THE OLDER LENA CLASS. THE ARTICLE DISCUSSES	55131	507
<b>—</b>	THE CHANGES IN HULL CONTOUR WHICH RESULTED PRO	55131	<u>508</u>
	H EXPERIENCE WITH THE LENA CLASS. POR DETAILS	55131	509
	SEE 55016.	55131	510
<b>-</b>	AMGUENA CLASS	55131	701
_	ICEBREAKING CARGO SHIPS	55131	702
	CARGO SHIPS, TCEBREAKING	55131	703
•	ICE-GOING SHIPS	55131	704
	SHIPS-ICE GOING	55131	705
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	, e 4 ·	7. C.
- 5.001 - Chirvankavavata	(5% ↓ 1 (50 ∪ 1	101
FX.P 2 .C FYS CONSTRUCTION OF THE MICHEAR	6500\$	201
107 87 X 8 1 7 1 1 .=	69.41	252
5% 7% STROUNT, 27, AUG 1961, 99. 45-66	<b>5</b> 59⊎1	201
THIS ACTIONS HAS REPORTED BY A SPRICIAL NOWHER	65601	501 555
OF KUNDSTROEMIE WHICH REFINA TO ILEBKRAKER LEW - IM ONLY.	65001 65001	502 503
IT CONTAINS AN EXTUNSIVE DISCUSSION OF VARIOUS	65001 65001	594
TOCHNOLOSICAL PROPLEMS WHICH MENE COMMECTED W	65001	505
ITH CONSTRUCTION OF THE ICEMREAKER. INDIVIDUA	65001	506
L GT-PS OF THE AGGENBLY ARE DECERTED IN DETAIL -	65001 65001	507 508
ICTARTAKER LENIN	65001	701
LINE ICERREAKER	65001	702
ICEBREAKERS, CONSTRUCTION	65301	703
CONSTRUCTION, ICEBREAKERS	65001	704
ICTHREAKERS, ASSEMBLY ASSEMBLY, SHIPS	65001 65001	705 706
- 4591-941 <b>,</b> 5m145 - 65902	65002	016
ANDRIAMOV, R. P.	65002	101
METAL MORKING AND ASSEMBLING OF HULL AND DEC	65002	201
K RECTIONS OF THE ICEBREAKER LENIN.=	65002	202
SUDDSTROENIE, 27, AUG 1961, PP. 46-48 THIS ARTICLE HAS APPEARED IN A SPECIAL NUMBER	55062 65002	251 501
OF SUDOSTROENIE WHICH REFERS TO ICEBPENKER LEN	65002	502
IN ONLY.	55UÚ2	503
IT DESCRIBES ARIEFLY SOME OF THE TECHNOLOGICAL	65CC2	
RESATIONS COMMECTED WITH ASSEMBLY OF THE ICE	65002	505
HPENKER. TRANSLATION OPTIONAL.	65002 65002	506 701
LININ ICEBREAKER	65032	702
ICTHPEAKERS, ASSEMBLY	65002	703
ASSEMPLY, ICEBREAKERS	65002	704
65003	65003 65003	010 101
GAUSENOK::A.A. Geozman::Man.M.K.	65003	102
HULL ASSEMBLING AND LAUNCHING OF THE ICEBREA	65003	201
KER LEMIN.=	65003	202
SUDOSTROENIE, 27, AUG 1961, PP. 48-53	65003	251
THIS ARTICLE HAS APPEARED IN A SPECIAL NUMBER OF SUDOSTROENIE WHICH REFERS TO ICEBREAKER LEN	65003 65003	501 502
IN ONLY.	65003	503
IT DESCRIBES THE PROBLEMS ENCOUNTERED DURING A	65003	504
NO THE PROCEDURE OF HULL ASSEMBLY OF THE ICERR	65003	505
EAKER. LOCATION, OPDER, SIZE AND MEIGHT OF IN	65CO3	506 507
DIVIDUAL SECTIONS ARE MENTIONED. SEVERAL PHOT OGRAPHS AND SKETCHES ARE INCLUDED. THE LAUNCH	65003 65003	507 508
ING EQUIPMENT IS BRIEFLY DISCUSSED. EXCEPT FO	65003	509
R THIS INFORMATION, THE ARTICLE DEALS WITH COM	65003	310 '
"O" TECHNOLOGICAL PROBLEMS WHICH USUALLY APPEA	65003	511
R DURING ASSEMBLY OF HULLS OF SIMILAR SIZE.	6500 <b>3</b>	512 701
ICEBPEAKER LENIN Lemin ICEBREAKER	65003 65003	70± 702
ICEBREAKERS, ASSEMBLY	65003	703
ASCEMBLY, ICEBREAKERS	65003	704
65004	65004	010 101 [
MACOM.M.M. WELDING IN CONSTRUCTION OF THE NUCLEAR ICERR	65004 35004	201
EAKER LENINGS	65004	202
		3

		;
\$000\$T00[N17, 27, 400 1961, PP. 63-56	6.004	251
This ARTIC & HAS APPLIANT FAM A SPECIAL MODELY	3,444	ンジュ 🎚
OF SUDCATRAINID ARINA REPLAS TO TURBNIZH, R. LEN	5 , 5 5 %	202 3
IN OMLY.	64004	503 1
IT DESCRIPES VITHOUT VICH RETAIL THE USE OF MA	6,204	504
NUAL AND AUTOMATIC VELOING AND CUTTING DURING	65004	£ 0.5 %
ASSEYHLY OF THE HULL STRUCTURE. SPECIAL PROPE	65054	うへら さ
EMS RESULTING FROM WELDING AND CUTTING OF STAIL	5,004	597 :
NLESS-STEEL PARTS OF THE HULL ARE MENTIONED, h	65004	508
UT VIRTUALLY NO SPECIFIC INFORMATION IS DISCLO	65004	୬୦୨
SED. SIMILAR ATTENTION IS GIVEN TO WELDING OF	65004	più.
STERN AND STERM STRUCTURES AND TO WELDING OF	65304	بند
PIPELINES.	65.44	512
ICEBREAKER LENIN	<b>6</b> 5004	701
LENIN ICEBREAKER	65004	7^2
ICEHREAKERS, CONSTRUCTION	35004	703
CONSTRUCTION, ICEBREAKERS	650.4	704
ICEHREAKERS, ASSEMBLY ASSEMBLY, ICEBREAKERS	65004	705 708
ASSEMBLY: ICHBREAKERS MELDING TECHNIQUES	53004 65004	70£
95002 . - 4501WG LECHNIONER	65004	757
ANDREFVA:N.A.	6505 65003	. ~ -
REPNACKIJ.G.V.	65.00 65005	100
ALEKSEENKO.A.P.	55005 65005	102
SPECIAL DRILLING EQUIPMENT USED IN CONSTRUCT	65005	2
ION OF THE NUCLEAR ICEBREAKER LENIN.=	65005	202
SUDOSTROENIE, 26, APR 196(, PP. 52-56	65005	251 251
VARIOUS SPECIAL DRILLING MACHINES WHICH HAVE B	65005	301 301
EEN USFD FOR MACHINING DIRECTLY ON THE SHIP AR	65005	50Z
E DESCRIBED. THIS APPEARED NECESSARY IN CASE	65005	503
OF LARGE-SIZE PARTS. PROPELLEP SHAFTS, STERN	65005	504
STRUCTURE, AND SUPPORTS OF SHIP EQUIPMENT ARE	65005	505
DICCUSSED IN PARTICULAR. THE ARTICLE DESCRIBE	65005	506
S THE TOPIC IN CONSIDERABLE DETAIL, INCLUDING	65005	
MANY TECHNICAL DATA, TECHNOLOGY AND DRILLING O	65005	508
PERATIONS PERFORMED.	65005	509
LENIN ICEBREAKER	65005	701
ICEBREAKER LENIN	<b>6</b> 50 ყვ	702
ICEBREAKERS, ASSEMBLY	65005	703
ASSEMBLY, ICEBREAKERS	65005	704
65006	65006	310
ANONYMOUS	65006	101
A SHIP FOR POLAR REGIONS.=	65006	201
MOTOR BOATS FOR ICEBREAKERS.=	65006	202
SUDOSTROENIE, 25, JAN 1960, P. 78	65036 45334	251
THESE ARE TWO SHORT ARSTRACTS OF ARTICLES WHICH HAVE ARE THE FRENCHES	65306 45.034	5 ^ <u>1</u>
H HAVE APPEARED ELSENHERE.	65006 65.06	
THE FIRST ONE REFERS TO A GERMAN CARGO SHIP DE	65006 65006	.•
SIGNATED FOR NAVIGATION IN ICE. FOR ORIGINAL REFERENCE, SEE HANSA 7, NO. 30/31, 1959.	65006 65366	5 <del>4</del> 808
THE SECOND ONE DESCRIBES LIGHT POATS MADE OF R	65006 65006	505 504
EINFORCED PLASTICS AND USED ON U.S. ICEBREAKER	65006	506 507
S. OPIGINAL REFERENCE IS BUREAU OF SHIPS JOUR	65006	507 505
NAL, VI, VOL. 8, NO. 2, 1959.	65006	505 509
ICE-GOING SHIPS	65006	509 701
SHIPS, ICE-GOING	65006	702
ICEHREAKERS, MOATS	65006	702 703
BOATS, ICEMREAKERS	65006 65006	704 j
65007	65005 65007	010
KLOPO10V+8.E.	65007	101
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まつかが ちゃ・ × ペプターサン THE が 1位上表が同じ換録というがんです。(第7	55007	251
OM THI HISTORY MY THE MORIE LTEUGRIU SHIPYNRD)	65007	202 🧗
• <b>=</b>	65007	203 🦹
\$KITOSTKA (111. 23, U/) 1981, PP. 91-55	65JJ7	251
HO TH HISTORY OF THE MUSICE SHIPMARD IN LEMING TWO SINCE ITES SINCE SOME HITEMEDS IS PA	65007	501
TAR SINCT 17.5 IR GIVIN. SOME ATTRAITION IS PA	UD 3U7	502 {
IN TO THE CONSTRUCTION OF ICCHRESKER LEMIN, SO	65007	503 }
ME OF THE "ENLY DEVELOPED TECHNIQUES ARE MENTI	65007	504 1
CNFC AND WAYES OF MANY PERSONS PARTICIPATING I	65007	505 <u> </u> 506
N THIS PRODUCT ARE CIVIN.	65007	506 }
ICT RREAKERS, HISTORY	65007	7014
HINTORM, ICEMPEÄKORS	65CU7	702 ]
ALMIRALTEUSKIU SHIPYARD	65367	703
SHIPMARD, ADMIRALTEUSKIU	65007	704 1
6500 <sup>4</sup>	65008	010
AMONYMOUS	65008	151
ICERREAKERS OF M. O. HRITMEV.=	65008	251
SUBOSTROENIE, 26, JAN 1960, P. RE	65008	251,
A CHART HISTORY OF PUSSIMA ICEBREAKER RESIGN I	65008	501
S GIVEN. PRICRITY IS ATTRIBUTED TO THE PIONEE	85058	502
RING FORK OF M. O. BRITHIN OF KRONOSHTAT WHO C	65008	503
ONGTRUCTED THE FIRST ICFORTAKER PAULOT IN 1862	65008	504
BY REMODELING A RECULAR HARBOR STEAMER. 13 R	650C8	505
REFERENCES TO HISTORY OF RUSSIAN ICEBREAKERS AR	<b>6</b> 5008	506
E GIVEN.	65068	507
RUSKIAN /ICEHREAKERS	65003	701
ICTERTAL RS, HISTORY	65008	702
HIRTORY, ICERPEAKERS	65008	703
ICFHREAKERS, RUSSIAN	65008	704
65 <b>0</b> 09	65009	510
44 J NYMOUS	65009	101
CONSTRUCTION OF THE NUCLEAR ICEMREAKER.=	65009	201
SUDOSTROENIE, 23, JAN 1957, PP. 11-14	65009	251
THIS IS A PPELIMINARY ARTICLE DESCRIBING MAIN	65009	501
COMPRIDERATIONS AND STRUCTURAL FEATURES OF THE	65039	502
LENIA ICERPEAKER.	65009	503
THE ADVANTAGE OF THE NUCLEAR PROPULSION LIES B	<b>65039</b>	504
OTH IN THE LENCTH OF INDEPENDENT NAVIGATION AN	65039	5 C 5
D IN MAINTAINING THE RATIO OF POWER CAPACITY T	65009	506
O MATER DISPLACEMENT. THIS RATIO ( 44 000 HP.	65009	507
TO 16 000 TONS 4 2.8) IS PROPORTIONAL TO THE	65009	508
ICESMEAKING CAPACITY AND WAS LOWER THAN ONE ON	65009	509
OLD STEAM ICEAREAKERS. COMPARATIVE NAVIGATIO	<b>6</b> 5009	510
M PERIOD OF A DIESEL-TLECTRIC ICEMPEAKER OF TH	65009	511
F KIME SIZE MOULD HE OMLY TO NEEKS AND THE POW	65009	512
ER CAPACITY MOULD HE ONLY 30 DOW HP. HENCE, T	65009	513
HE CHOVE MINITIONED RATIO WOULD HE 1.9.	65009	514.
SONI STRUCTURAL DETAILS, GENERAL ASSEMBLY AND	65009	515 [
MELDING PROCEDURES ARE MENTIONED. TRANSLATION	65009	516.
PECOMMENDED.	<b>6500</b> 9	517
ICEHPFAKER LEMIN	45009	701,
LEMIN ICEBREAKER	65009	702
ICEBREAKERS, CONSTRUCTION	65009	703 {
CO'STRUCTION, ICEBREAKERS	65009	704 į
65010	65010	010 }
GUNDOBIN, A.A.	65010	101
TAPILITY OF MODERNIZED, RE-EQUIPPED SHIPS.=	65010	201
SUDOSTROENIE: 29, JAN 1963, PP: 62-64	65010	251
THE INTERESTING PART OF THIS ARTICLE IS THAT D	65010	501
FALING V THE ICEBREAKER SIBIR WHICH 3 COV	65010	502
		3

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PLETFLY KIRCLET IN 1959. ITS DISPLACEMENT IS SAST TONS. NO OTHER DATA IS SIVEN. 63.25 63.25 ICERREAKLR STAIR SIGIR ICL-RU VIR 10円もタテム人デマス。 のここやが1アムで1の人 MODERNIZATION, ICERSEPKERS 65011 ANONYMOUS MEW CANADIAN ICEBREAKTRS.= 65011 SUDOSTROENIE, 26, JUN 1960, PP. 60-69 THIR IS A SHORT SUMMARY OF THO ENGLISH ARTICLE 65011 55011 55011 S ON NEW CANADIAN ICERRAKERS. THE FIRST ONE DEALS WITH A 4250 80 10FBREAKER 65011 CAMCELL. ORIGINAL REFERENCE CAMADIAN SHIPPIN 65:11 65011 G AND MARINE ENGNR. NEWS XII, 1959. THE SECOND ONE DESCRIBES A 15 ONU HP ICEHREAKE 6:011 R. JOHN A. MACDOMALD. THIS WAS THE LARGEST CA 65011 65011 NADIAN ICERREAKER AS OF 1960. CRIGINAL PEFERE 65011 65011 65011 NCE SHIPPING REGISTER AND SHIPPUILDER, VOL. X LII, NO. 12, 1959. CANADIAN ICEBREAKERS ICEBREAKER CAMSELL 65011 65011 CAMSELL ICEBREAKER ICEBREAKER JOHN A. MACDONALD JOHN A. MACDONALD ICEBREAKER 65011 65011 ICEBREAKERS, CANADIAN 65012 55012 65012 KASSFLL, B.M. RUSSIA S ICCBREAKERS.= 65012 REFERENCE UNKNOWN, PP. 137-152 65012 THIS IS AN EXTENSIVE SURVEY ARTICLE WHICH COVE 65012 RS THE HISTORY OF DEVELOPMENT OF ICEBREAKERS O 65012 PERATED AND PARTLY BUILT IN RUSSIA EETWEEN 190 65012 O AND 1950. EQUAL CONSIDERATION IS GIVEN TO T 65012 ECHNICAL DATA AND TO POLITICAL AND ECONOMICAL 65012 65012 BACKGROUND. IN ENGLISH. 65012 RUSSIAN ICERREAKERS 65012 ICEBREAKERS, HISTORY 65012 HISTORY, ICEBREAKERS 65012 ICEBREAKERS, RUSSIAN 65013 65013 65013 MOPLEY, J.P. 65013 ICEAREAKERS, THEIR CONSTRUCTION AND USE.= REFERENCE UNKNOWN, PP. 6-12 65013 THIS ARTICLE DESCRIBES SHORTLY THE HISTORY OF 65013 ICEBREAKING SHIPS AND MODERN TREADS OF DEVELOP 65013 65013 MENT. THEN DETAILED INFORMATION IS GIVEN ON T HE MOSKVA CLASS ICEBREAKER. IN ENGLISH. 65013 65013 ICEBREAKERS, HISTORY HISTORY, ICEBREAKERS 65013 65013 MOSKVA CLASS 65014 65014 65014 KACCELL, B.M. MARINE ENGINEERING NOTES FROM THE SOVIET UNI 65014 65014 ON . = J. AMER. SOC. NAVAL ENGNRS., AUG 1962, PP. 571 65014 65014 -580 THIS ARPICLE CONTAINS SHORT SUMMARIES FROM SOV 65014 IET SERIALS. A LARGE VARIETY OF TOPICS IS INC 05014 LUDED. ALSO A SHORT GENERAL PARAGRAPH ON ICEH

Samplification Branch contractor to a

SEAN OF THE PROPERTY OF THE TENT OF THE PROPERTY OF THE PROPER	AD014 AD014 65014 65014 65014 65014 65014	1 1 2 1 1 1 1 1 1 1 7 7 1 1 1 1 1 1 1 1
SHIPS, ICE-GOING ICIUSEAKERS, RUSSIAN 65 15 KARTELL, D.A. MARINE ENGINEERING NOTES FROM THE SOVIET PRE 85.= U. AMIR. SOC. NAVAL ENGNRS., FEH 1962. PP. 71+	5514 65015 65015 65015 65015 65016	7-7-0-10100
THIS IS ANOTHER MRTICLE OF THE AUTHOR LASED ON SUMMARIES FROM SOVIET SERIALS. AGAIM, ALMOST TO STREET OF TOPICS IN TREATER, INCLUDING YERY SHORT NOTES ON DAM AGE TO SEMAN CLASS ICE-STRENCTHEARD SHIPS HUIL TO IN FINLAND IN 1945. THEN THERE IS A SHORT D	65015 65015 65015 65015 63015 65015	4500000000 4500000000000000000000000000
ESCRIPTION OF A CLASS OF OCEANOGRAPHIC SHIPS BUILT IN FINLANT IN 1958 FOR USE IN THE ARCTIC.  THOSE, HOWEVER, ARE VERY SMALL (400 HP, 810 TOTE) SHIPS WITH HOODEN HULLS. PLASIAN ICENSEAKERS ICENSEAKERS, DAMAGE DAMAGE, ICEBREAKERS	65015 65015 65015 65015 65015 65015	507 509 509 501 702 703 704
ICESREAKERS, RUSSIAN 65016 GERMAIN.E.  NORTH TO THE PASSAGE.= STEELMAYS, PEFERENCE UNKNOWN, PP. 2-5 THIS SHORT ARTICLE DESCRIPES SOME RECENT DEVEL OPMENT OF CANADIAN ICESREAKERS. IT MENTIONS C ONSTRUCTION OF A NEW 24 GOO HP TRIPLE SCREW ST EAM TURNOELECTRIC ICESREAKER WHICH SHALL HE 36 6 FEET LONG AND HAVE 13 300 TONS. NO DETAILS APT SIVEN. NEEDS FOR ICEBREAKING IN CANADA AR E REMIEWED.	65016 65016 65016 65016 65016 65016 65016 65016	7011111234567 01005000000000000000000000000000000000
CAMADIAN ICEBREAKERS ICEBREAKERS, CAMADIAN 65017  PAMLOV,A.I.  GLUING OF SHIP METALLIC STRUCTURES.= SUBOSTROENIE, 25, DEC 1959, PP. 36-41 THIS IS AN EXPOSITORY ARTICLE ON GLUING OF METALS. SOME TYPICAL JOINTS ARE SHOWN AND RELEVANT FORMULAE FOR STRENGTH COMPUTATION LISTED. MAIN ATTENTION IS GIVEN TO EPOXY RESINS AND SO	65016 65016 65017 65017 65017 65017 65017 65017	T70H2UNGOOD
ME APPLICATIONS ARE NOTED.  METALS, GLUING GLUING, METALS 65010  VASILEV, L.G.  FOREICH DESIGN AND CONSTRUCTION OF VILITARY AND CARBO SHIPS WITH NUCLEAR POWER PLANTS.= SUDOSTROT TE, 23, MAY 1957; PP. 59-62	65017 65017 65017 65018 65018 65018 65018	570111121 570111121 251

THIS IS A COMMISS OF TWOOL OF TSTORY WE NOTE ES ON THE TIMES TORIGO IT TO TIMES U. S. NOCL EAR SUBMA INTO NAUTIL & AND STANDER MILITARY AND CIVILIAN VESSILS OF THE MICH VEST CONSIDER ED OR ACTUALLY CONSIDER ED OR ACTUALLY CONSIDER CO. 1 A 1958 TA ENGLAND. 50 () 100 () FRANCE, GIRMINY, SCANDINAVIR AND IN UKRAN. SHIPS, POWER PLANTS POMER PLANTS, SHIPS PROPULSION, MUCLEAR NUCLEAR, PROPULSION 65019 SAFONOV.A.I. 65015 EXPERIENCE WITH USE OF AUTOMÁTIC MELDING FOR 65019 VERTICAL SITE WELDS OF SHIP FULLS.= 65019 SUDOSTROENIE, 23, NOV 1957, PP. 31-34 65019 THIS IS A PRACTICAL ACCOUNT OF APPLICATION OF 65019 AUTOMATIC WELDING TECHNIQUES FOR VERTICAL JOIN 65019 60019 65019 TS. THE PROCESURE IS DESCRIBED IN DETAIL THE APPARATUS IS NOT. IT IS CONCLUDED THAT BOTH ARC AND SUBMIRGED ARE MELDING IS APPLICABLE IN 65019 D RESULTING PROPERTIES OF JOINTS MEET THE REQU 65019 ຊ **ວ**ີ. ວິວິສ IREMENTS OF THE USSR REGISTER. THE MAIN EFFECT IN LAHOPSAVING RESULTS FROM THE FACT THAT NO 65019 65019 STOAIGHTENING OF WELDED PARTS OF HULL SHELL I 35019 65019 S NECESSARY. 65019 WELDING, AUTOMATIC AUTOMATIC, FELDING 65019 65019 65019 HULL, CONSTRUCTION CONSTRUCTION, HULL METALS, WELDING 65019 WELDING, METALS 65019 5 20 65020 Z, 30TIN, V.F. 65020 VYCHEGZHANIN, A.A. 63623 AUTOMATIC VERTICAL WELDING IN TANKER CONSTRU 65020 65020 CTION.= 251 SUDOSTROENIE, 22, NOV 1956, PP. 28-30 65020 THIS IS A PRACTICAL ACCOUNT OF THE TITLE TOPIC 65020 IT IS SHOWN THAT AM AUTOMATIC WELDING MACHI 65020 NE 4-433, WHICH WAS DEVELOPED BY THE E. O. PAT 65020 ON (WELDING RESEARCH) INSTITUTE OF THE UKPAIN! 65020 AN ACADEMY OF SCIENCES, IN 1955 MAY DE SUCCESS 65020 500 FULLY USED. THE E. O. PATCA INSTITUTE HAS A C 65020 506 ONGIDERABLE REPUTATION IN THE FIELD OF WELDING 65020 65020 2ට ප TECHNICAL DATA OF A-433 AND ITS PERFORMANCE AR 55020 E DESCRIBED. IT IS CONCLUDED THAT ITS USE FOR 55020 VERTICAL MELDING OF 3/4 IN. PLATES IS SATISFA 65020 CTORY AND SAVES LABOR CONSIDERABLY. WELDING O 65020 F BOTH CARBON AND LOW-ALLOY STEELS WAS TRIED O 63020 UT. HOWEVER, A FORMER TYPE (A 411) OF A SIMIL 65020 AP MACHINE PATED AS POOR. 65020 WELDING, AUTOMATIC 65020 AUTOMATIC, WELDING 65020 WELDING EQUIPMENT 65020 65021 65021 DUBPAVIN, A.I. 65021 AN OUTSTANDING POLAR EXPEDITION.= 65021 SUDOSTROENIE, 31, SEP 1965, PP. 68-74

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THE TOTAL STATE OF THE PROPERTY OF THE STATE	\$5.22	503
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CIT WENG AND WALKER DISTRIBUTED TO SECOND TO A SECOND TO A SECOND AS MENONED BY HOPE I SHOULD BE A SECOND TO A SEC	65021	507 }
THE MAIN CONTROL THE PROTOCKY OF THESE ICE REAKERS	65,21,	558
TETTE SELEN HADENCH LAS CENTROMED IN 1916 WH	65021	500 1
THE TAUMMENT OFFRATION OF TALL 1954.	6552 <b>1</b>	5.0
	65021	7,00
ICE SEAKINS, MISTORY		752 1
HICTORY, ICT OTAKERS	65021	
ARATIC RUSEARCH	35C21	703
\$7002	<b>6</b> 5€22	0.10
210 Jugas	65022	101 ; 201 ;
THE ARCTIC ICEARDIAINS FLEST .=	63522	201 '
hakkou Fint, 17, bic 1957. P. 1	65022	251
THE IS A VERY HEIDT AND CINTURE HOTICLE OF TH	65022	501
E TWISSIAN ICEARENCIAL FLE T. IT STANTS WITH E	65022	502
SMIR AND KRIGH ICCUMEARERS AND CLOSES MITH PR	63022	503 4
EDICTIONS FOR THE MOSKVA AND LAND CLASSES. T	65022	504
HE NOTICES MENTIONS SOME ICE: REAKERS, BUT THE	65022	505
	65022	506
ACCOUNT IS MERY ARIEF AND INCOMPLETE.	65022	701.
Rycelam ICEHRFAKIRS		702
ICHARENKERC, HISTORY	65022	
HIRTORY, ICEBREAKERS	65022	703
ICEBREAKERS, RUSSIAN	65022	704
65023	65023	010
ANONMOUS	55023	101
THE NUCLE R ICERREAKER LENING=	65023	201
VOPKKOJ FLDI, 18, NOV 1958, PP. 4-5	65023	251
THIS IS A SHORT AND VERY BRIEF DESCRIPTION OF	65023	501
THE LEWIN ICEMPEAKER. IT CONTAINS SOME TECHNI	65023	502
CAL DATA AND MANY GLORIFYING COMMENTS.	65023	503
LENIN ICERREAKER	65023	701
	65023	702
ICI, FAKER LENIN	65024	010
550,24	55024	101,
KUCHIEV, JU.		
FIVE NAVIGATIONS OF THE NUCLEAR ICEPREAKER L	65024	201
ENIN.=	65024	202
YO⊃⊂KOJ FLOT, 25, FEB 1965, PP. 2-2	65024	251,
THIS IS A PATHER GLORIFYING ACCOUNT OF THE REC	65024	501
ENT HISTORY OF THE ICERPEAKER SINCE JUNE, 1960	65024	502
. MAIN SERVICE TASKS ARE LISTED, AND NAMES AN	65024	503
D PHOTOGRAPHS OF RANKING CREW MEMBERS ARE INCL	65024	504
UDED. TRAUSLATION OPTIONAL.	65024	505
ICE-REAKER LENIN	65024	701
SINTAANAN EEN AN	65024	732
LETIN ICEAPEAKER	65024	703
ICEBREAKERS: OPERATION	65024	704
OPERATION, ICEBREAKERS	65025	010
650.25		101
SIMONENKO,V.	65025	707
FAMOUS CAPTAIN OF THE ICEBREAKING FLEET.=	65°25	201
MORSKOU FLOT, 25, OCT 1965	65025	251 501
THIS IS AN HISTORICAL ACCOUNT OF ACTIVITIES OF	65025	501
V. I. VORONIN. HE BECAME KNOWN IN 1928 AS A	65025	502 503
CIPTAIN OF A STEAM ICEHOLAKED O. SEPON PHICH W	65025	
AS ENGAGED IN ARCTIC EXPENITIONS. IN 1932 HE	65025	504
COMMINDED THE ICTAREMETR A. SIBIRUAKOV AND SUC	65025	505
ceanen, and the prost Time. To 0 "Come The ""		506
COMMANDED THE ICTARRAKER A. SIBIRDAKOV AND SUC CERDED, FOR THE FIRST TIME, TO C. "COME THE ""	65025	

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MORKKOU FLOT. 24, H.C. 1934, PP. 34-35

THIS IS AN HISTORICAL ACCOUNT MIRGINS THE 1967

H ANNIVERSARY OF CONSTRUCTION OF THE FIRST 3CF 20026 65026 55026 15026 AREAKER PASLOT. IT MAS ACTUALLY WAS ICE-STREMS J5026 THENED STE YER, CONSTRUCTED BY BUILTY (26 M LO : ^4 : 0:: 65026 55026 NG, DRAUGHT 2.5 M, 85 HP1. THE SEVELOPMENT IS 557777 65026 FOCLOWED UP TO ERMAK (1898) AND IS FINISHED H 35025 Y MENTIONING LENIN. 05/25 ICFBREAKER PAULOT 65026 PAUL OT ICEPPENKER 65025 ICEHREAKERS, HISTORY 65026 HISTORY, ICEBREAKLYS 5502**7** 65017 65027 ANONYMOUS 65027 HARROR TOFHREAKER DOHRYNUA MIKITICH.= 63027 SUDOSTROENIE, 31, SEP 1966, 2 PP. THIS IS RATHER AN ADVERTISEMENT HUT IT GIVES T 65027 HE FOLLOWING TECHNICAL DATA OF THE ICEREAKER 65027 MAX. LENGTH ST.7 M. LENGTH AT HATTRLINE 62.5 : 01 65027 M, TREADTH MAXIMUM 18.1 M, AT WAT PLIKE 17.5 M 65027 55027 , DRAUCHT 5.5 M, DEPTH P.3 M, WATER DISPLACEME 5:027 IT MAY DE SEEN NT 2700 TONS, SPEED 14 KNOTS. 6502**7** THE THIS DATA IS IDENTICAL WITH THOSE GIVEN I 65027 M PEFERENCES 55014, 75015 AAD 55050, RESPECTIV 001111110 6502**7** ELV. THERE THE ICEBREAKER WAS NOT ICENTIFIED 65027 (55014, 75015) OR DESCRIBED AS LIDOKOL CLASS. 65027 INDEED, THIS DESIGNATION APPEARS OF ONE OF TH 65027 E PHOTOGRAPHS WHICH SHOWS AN ICEBRUAKER OF THE 02327 SAME CLASS AS THE DORRYNUA MIKITICH. 65027 LEDOKOL CLASS 65027 ICEHREAKER DOMRYNUA NIKITICH 65027 DOBRYNUR NIKITICH ICEBREAKER 65327 ICEBREAKERS, DESIGN. 705 703 £501 DICIGN, ICEBREAKERS 65-27 ICEBREAKERS, CONSTRUCTION -37 65017 COMATRUCTION, ICEBREAKERS 61147 HAREOR, LCEBREAKERS ICE-ROAKSRS, HARHOR 65027 Rice IAS ICFHREAKORS 67029 65024 65029 **VELESHOO, V.** 65028 ICPHREAKING OPPRATIONS IN THE GULF OF FINLAN 50.000 65078 VORKKOU FLOT, 23, FEB 1963, PPJ 21-13
THIS IS A SHORT BUT WATHER DETAILED ANALYSIS OF THE TITLE TOPIC DURING WINTERS 1960-1961 AND 65025 65025 302 503 6502a 1061-1962. ICEAREAKING PERFORMANCE OF ICEARE 65028 50-AKTOS LINITGRAD, KAPITAN MORONIN AND SIBIRJAKO 65028 W TH TYALLATED. IT IS SHOWN THAT THE MORKING PERIND OF THOSE ICERREAGERS HAD A DONTED TO 82 505 65025 65028 ည်သို့ TO DEP CENT OF THE TOTAL OPERATION TIME. 5**07** 306 65025 SHAT SPEEDS OF CAPAVANS FOLLOWING THOSE ICE 65028 PARTAKTAS THE ALSO LISTED AS A FUNCTION OF THE 55028

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TIC ACCOUNT OF THE LATTER IS GIVEN IN 55050.  TRANSLATION OPTIONAL.  LETOKOL CLASS ICHBREAKER DOBRYNUA MIKITICH DOBRYNUA MIKITICH ICEBREAKER ICEBREAKERS, OPERATION OPERATION, ICEBREAKERS 65030 KOCHEROV,P.N.  TICHKOVETZ,I.V.  FROM THE EXPERIENCE OF CONSTRUCTION OF ICEBR EAKING TUGS.= SUDOSTROEMIE, 24, AUG 1958, PP. 54-50 THIS IS A VERY DETAILED AND EXTERSIVE ARTICLE WHICH DESCRIBES CONSTRUCTION, FIELD TESTS AND PERFORMANCE CHARACTERISTICS AND SUBSEQUENT CHA NGES OF PROPELLER DESIGN IN POWER PLANT CHARAC	65029 65029 65029 65029 65029 65029 65029 65029 65029 65029 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020 65020
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N (EXPERIENCE FROM THE ICEBREAKER MOSKVA) .=	65031	202
MORSKOJ FLOT, 22, JAN 1965, PP. 35-36	65031	251
THIS IS A BRIEF ACCOUNT OF THE AUTHORS EXPERIE	65031	501
NCE ON VARIOUS ICERREAKERS. MOST RECENTLY AS C	65031	502
APTAIN OF THE ICEBREAKER MOSKVA. IT DESCRIBES	65031	503
ICEBREAKING PERFORMANCE OF ICEBREAKERS OF THE	65031	504
7000-8000 HP CLASS AND REQUIREMENTS ON THE FO	65031	505
LLOWING SHIPS. THEN THERE IS A VERY BRIEF NOT	65031	
E ON THE PERFORMANCE OF THE MOSKVA ICEBREAKER	65031	506
AND ON THE GREAT USEFULNESS OF ICE-STRENGTHENE	65031	507
D CARGO SHIPS OF LENA CLASS. TRANSLATION AVAI	65031	508
LABLE DDC, D PHYS. R(G), REPT. MISC, G. 12,		509
OTTAWA, JAN 1963.	65031	510
ICEBREAKERS, OPERATION	65031	511
	65031	701
OPERATION: ICEBREAKERS	65031	702
MOTRAL CENSS	65031	703
LENA CLASS	65031	704
65032	65032	010
POMERANEC+K.S.	65032	161
A NEW RESEARCH SHIP. =	65032 *	201
PROBLEMY ARKTIKI I ANTARKTIKI 9, 1961, P. 96-9	65032	251
A	65032	252
THIS IS A SHORT DESCRIPTION OF THE RESEARCH SH	65032	501
IP AZIMUT WHICH WAS BUILT IN FINLAND IN 1958 A	65032	502
ND ASSIGNED TO OCEANOGRAPHIC STUDIES IN ARCTIC	65032	503
SEAS. IT IS A ONE-PROPELLER DIESEL-ELECTRIC	65032	504
SHIP WITH WOODEN STRUCTURE. DISPLACEMENT 810,	65032	505
LENGTH 40 M, BREADTH 9 M, 400 H.P. MAX. SPEED	65032	506
10.5 KNOTS. THE SHIP IS WELL EQUIPPED AND SA	65032	507
TIRFIES ICEBREAKER CLASS REQUIREMENTS.	65032	503
ICEBREAKER AZIMUT	65032	701
AZIMUT ICEBREAKER	65032	702
ARCTIC RESEARCH	65032	703
65033	. 65033	010
EITNER, W.	65033	101
TIMM,E.	65033	102
STATISTICAL EVALUATION OF TECHNICAL FAILURES	65033	201
DURING 1960.=	65033	202
SCHIFFRAUTFCHNIK II, OCT 1961, P. 525-526	65033	251
THIS IS A RATHER INTERESTING SUMMARY OF SHIP F	65033	501
AILURES. IT APPEARS THAT 551 ARE DAMAGES OF V	65033	502
ARIOUS MACHINES, AND ABOUT 20( DAMAGES OF PROP	65033	503
ULCION SYSTEMS.	65033	504
SIX MODES OF BASIC FAILURE REASONS ARE SUBDIVI	65033	505
DED INTO A TOTAL OF 35 ITEMS AND EVALUATED IN	65033	506
PER CENTS.	65033	507
FAILURE	65033	701
SHIPS, DAMAGE	65033	702
	·	

SHI	PS, ICE-GOING	65037	70
	CAGO CARGO SHIP	65037	70
	GO SHIP, CHICAGO	6503 <b>7</b>	70
	VELAND CARGO SHIP GO SHIP, CLEVFLAND	65037	<u>70</u>
650		650 <b>37</b>	/(: 0 i
	NYMOUS	<u>85(38</u> 85018	10
	MODERN HARBOR THE WITH DIESUL-FIRETRIC SCR	65038	20
	PAOPELLER AND WITH A NOZZLE SUDDER. =	65038	50
	IFF UND HAFEN, NOV 1959, P. 1015-1016	65038	<u>25,</u>
THI	S IS A SHORT DESCRIPTION OF THE FICHEL CLAS	65038	50
	UGS FOR SERVICE IN THE HAMBURG HAMBOR. LEN	65038	50
	20.6 M, BREADIH 7.20 M, DRAUGHT 3.60 M, 67	65038	50
	P. ALOUT 11 TONS OF PULLING FORCE.	65038	50
	BOR TUGS	65038	70
TUG	S, HARBOR	65038	70
	HEL CLASS	65038	70
650		65039	01
	KONOGOV, L. B.	65039	10
T	HE ELECTROSLAG WELDING OF PARTS OF SHIPS.=	65039	20
	OMATIC WELDING, APR 1962, p. 49-54	65039	25
	S IS A DESCRIPTIVE ARTICLE ON AUTOMATIC ELE	65039	50
	OSLAG WELDING OF SHIP PARTS OF LARGE CROSSE	65039	50
	ONS. THE WELDING TECHNOLOGY IS MORE FOONOM	65039	50
	L THAN MANUFACTURING OF LARGE CASTINGS. VA	65039	50
	US APPLICATIONS ARE DESCRIBED IN DETAIL. I	65039	50
	NGLISH.	65039	50
	DING TECHNIQUES DING, MANUAL	65039	70
	DING, AUTOMATIC	65039 65039	70. 70
	PS, CONSTRUCTION	65039	70
	STRUCTION, SHIPS	65039	70
650		65040	<i>n</i> 1
	ERMAN, M. R.	65040	10
	PROCEDURE FOR DETERMINING THE LEVEL OF MEC	65040	20
	IZATION OF WELDING OPERATIONS IN SHIPBUTEDI	65040	20
NG.		65040	20
AUT	OMATIC WELDING, JUL 1964, P. 72-78	65040	25
THI	S IS AN ECONOMY STUDY ON THE DESTRABLE LEVE	65040	50
	F MECHANIZATION OF WELDING OPERATION ON SHI	65040	50
	ILDING. IN ENGLISH.	65040	50
	PS CONSTRUCTION	65040	70
	STRUCTION SHIPS	65040	70
650		65041	01
	RELOM, N. O.	65041	10
	ATIONAL PLANNING OF TECHNOLOGICAL PROCESSES	65041	20
	R THE FABRICATION OF WELDED STRUCTURES.=	65041	20
	OMATIC WELDING, 1960, P. 5-8	65041	<u>25</u>
	S IS A DESCRIPTIVE ARTICLE ON THE ROLE OF T	65041	50
	NOLOGICAL DESIGN OF WELDING STRUCTURES. IN	650¢1	<u>50</u>
	RTICULAR, THE PROBLEM OF RIGIDITY OF THE ST TURE IS EXAMINED FROM THE VIEWPOINT OF WELD	65041 65041	50. 50
	STRESSES.	65041	50 50
	DING TECHNIQUES	65041	. 50 70
	PS CONSTRUCTION	65041	70
	STRUCTION SHIPS	65041	
650		65042	70 01
	MS, H.	65042	10
:. •• ••	. S. NAVY ICEBREAKER GLACIER. =	65042	20

DAMAGE. SHIPS	65v33	74.
65034	65:34	
ANONYMOUS	0000	
TUGS AND ICEBREAKERS OF 540 H.P.=	65034	201
JAHRBUCH DIR SCHIFFAHRT, 1961. P. 132-135	65034	251
THIS IS A BRIEF DESCRIPTION OF SIX TUGS AND SE	65034	201
VEN ICFBREAKERS WHICH ARE IN USE IN EAST GERMA	65034	502
NY.	65034	500
HARHOR, TUGS -	65034	701
TUGE + HARROR	65034	702
ICEBREAKERS, HARBOR	65034	703
HARMOR ICEBREAKERS	65034	704
GERMAN ICERREAKERS	65034	705
ICFHREAKERS, GERMAN	65034	706
65035	65035	010
ANONYMOUS	65035	101
ICERREAKER TOR.=	65035	201
JAHRBUCH DER SCHIFFAHRT, 1966, P. 121	65035	251
THIS IS A BRIEF DESCRIPTION OF THE TITLE ICEBR	65035	501
EAKER WHICH WAS RUILT IN FINLAND IN 1962-1964.	65035	50 <i>2</i>
THERE IS AN IDENTICAL ONE CALLED TARMO. DAT	65035	503
A LENGTH 85.4 M. BREAD"H 21.2 M. DEPTH 9.5 M.	65035	504
DRAUGHT MAX. 6.50 M. DISPLACEMENT 5230 TONS.	65035	505
12 000 H.P. 14 MAIN DIESEL ENGINES, 8 CYLINDER	65035	506
WARTSILA SULZER PER 3455 H.P.).	65035	507
ICFBREAKER TOR	65035	701
TOP ICEBREAKER	65035	702
ICEBREAKER TARMO	65035	703
TARMO ICEBREAKER	65035	704
65036	65036	010
ANONYMOUS	65036	101
NUCLEAR ICEBREAKER LENIN.=	65036	201
JAHRRUCH DER SCHIFFAHRT, 1963, P. 98-99	53036	251
A CHEMATIC DRAWING OF THE PROPULSION SYSTEM O	65036	501
F THE ICEBREAKER IS SHOWN.	65036	502
ICEHPEAKER LENIN	65036	701
LENIN ICEBREAKER	65036	732
	65037	011
65037	65037	101
HARMS, H.	65037	201
MS CHICAGO FOR SERVICE ON THE GREAT LAKES. =	65037	251
SCHIFF UND HAFEN, AUG 1959, P. 729-730	65037	501
THIS IS A SHORT DESCRIPTION OF THE TITLE SHIP.	65037	502
IT IS AN ICE STRENGTHENED CARGO SHIP, ITS SI STER SHIP IS CLEVELAND. IT WAS BUILT IN FRANC	65037	503
STER SHIP IS CLEVELAND. IT WAS BUILT IN PRANC	65037	504
Z AND BELONGS TO THE FRENCH LINE. LENGTH 137.	65037	505
20 E. BREADTH 19.00 M. DEPTH 7.60 M. DRAUGHT 7	65037	506
. 30 H. DISPLACEMENT 12230 TONS, 7000 HP, 1515	65037	507
KNOTS, LOAD SPACE 13580 CUBIC H.	65037	701
ICE-GOING SHIPS	•	

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	• •		
19-	SCHIFF UND HAPEN 8, PEB 1958, P. 128-129	65042	251
· ·	THIS IS A SHORT DESCRIPTION OF THE TITLE ICEBR	65042	501
	EAKER.	65042	502
	ICEBREAKER GLACIER	65042	701
	GLACIER ICEBREAKER	65042	702
`	65043	65043	011
	HARMS, H.	65043	101
·	MOTOR SHIP MAGGA DAN. =	65043	201
`	SCHIFF UND HAFEN, 8, NOV 1956, P. 941-942	65043	251
· •	THIS IS A SHORT DESCRIPTION OF THE TITLE SHIP.	65043	501
	IT IS A CARGO AND PASSENGER SHIP WITH ICE-ST	65043	502
	RENGTHENING. LENGTH 73.13 M, BREADTH 13.7 M,	65043	503
. <b>39</b>	DEPTH 7.30 M, DRAUGHT 6127 H, CAPACITY 1855 TO	65043	504
	NS, 2020 HP, 12.5 KNOTS.	65043	505
	HAGGA DAN CARGO SHIP	65043	701
` <b>'</b>	CARGO SHIP, MAGGA DAN	65043	702
-	ICE GOING SHIPS	65043	703
	SHIPS, ICE GOING	65043	704

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75001		75001	010
BRANDAUS, A. I.	'	75001	101
JUDOVIN.B.S.		75001	102
POWER PLANT ON THE NUCLEAR ICEBREAKER LENIN.		75001	201
S CALL AND ON THE MOCEPHY TERRITOR		75001	202
SUDOSTROENIE, 27, AUG 1961, PP. 21-29		75001	251
THIS ARTICLE HAS APPEARED IN A SPECIAL NUMBER		75001	501
OF SUDOSTROENIE WHICH REFERS TO ICEBREAKER LEN		75001	502
IN ONLY.		75001	503
IT DESCRIBES IN DETAIL BASIC PRINCIPLES OF THE		75001	504
NUCLE R POWER PLANT DESIGN, THE STRUCTURE OF		75001	505
RELATED ELECTRIC POWER PRODUCTION FACILITIES (		75001	506
THERMOELECTRIC GENERATORS, SPARE AND EMERGENCY		75001	507
DIESEL-ELECTRIC GENERATORS, ETC.), THE STEAM		75001	508
GENERATION AND CONDENSATION CIRCUIT, CONTROL E		75001	509
QUIPMENT AND ALSO BRIEF RESULTS OF TESTING OF		75001	510
THE POWER EQUIPMENT. SEVEN SCHEMATIC DRAWINGS		75001	511
ARE INCLUDED. TRANSLATION AVAILABLE OTS 62-		75001	512
11-111, JPRS12183, 29 JAN 1962.		75001	513
ICEBREAKER LENIN		75001	
<del>-</del>			701
LEMIN ICEBREAKER ICUBREAKERS, POWER PLANTS	•	75001 76001	702
		75001 - 75001	703
POWER PLANTS, ICEBREAKERS			704
PROPULSION, NUCLEAR		75001	705
NUCLEAR, PROPULSION		75001	706
75002		75002	010
KHAJKIN,A.B.		75002	101
JAGODKIN, V. JA.		75002	102
CALCULATION OF STATICAL CHARACTERISTICS OF P		75002	201
ROPELLER-FLECTRIC FACILITIES OF ICEBREAKING SH		75002	202
IPG. #		75002	203
SUDOSTROENIE, 32, JAN 1966, PP. 57-60		75002	251
CALCULATION OF FORCES AND MOMENTS FOR VARIOUS		75002	501
WORKING CONDITIONS OF PROPELLERS ON ICEBREAKER		75002	502
S ARE OUTLINED.	•	75002	503
SPECIAL ATTENTION IS GIVEN TO THE INFLUENCE OF		75002	504
INTERACTION OF THE PROPELLER WITH A FLOE. TH		75002	505
E PROCEDURE IS APPROXIMATE AND VERY SIMPLE. A		75002	506
S A RESULT, PLOTS OF TOTAL MOMENTS ACTING ON A		75002	507
PROPELLER SHAFT VS. SPEED OF ROTATION ARE OBT		75002	508
AINED. ILLUSTRATIVE EXAMPLES ARE GIVEN FOR IC		75002	509
EBREAKERS KAPITAN VORONIN, MOSKVA, LENINGRAD A	•	75002	510
ND LENIN. IN SOME CASES, ACTUAL MEASUREMENTS		75002	511
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TO THE THE LEVEL OF THE ST. TO ANDLY TROPS THE FIOL AL	7: 0 . 2	100 4 10 10 10 10 10 10 10 10 10 10 10 10 10
	75022	22.4
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	75552 75562	102 \$
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	75002 75802	705 8
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1	75002	707 🖁
ICH FRANTO KARITAN VOONNIN	75032	70 = 3
	75002	755
CONTRACTOR VORONIN ICEOREPHON	75002	710]
73.33 3.33	75003	0103
\$.\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	75663	1019
ERCHIV, N. A.	75665	1:2
CIMPORTY CALCULATION OF SHOP POWER PLATO BY	75003	201:
THE MATHER OF CTATISTICAL COELING OF DIGITAL	75603	202 Î
2710 J. 738 J. #	75003	203
S 170377711133. 30, 13 1900, PP. 17443	75003	251'
IT IS PROPOSED TO WLTERMINE THE CUPACITY REGULE	75003	501
THISTATS ON A SHIP PO TR PLANT FROM PROLABILITY	75003	202
CHRISTICS WHICH ARE OBTAINED BY YEARS O	75003	
F ATHTISTICAL NOOFLING QU. CO PUTERS AND MAICH		903 504
FRE HESED ON GRKING FEATURES OF PARTICULAR MP	75003	504
	75003	505
PLINICES AND OF STS GROUPS. IN THIS AY, THE	75003	506
34' OHM CHAPACTER OF THE REQUIRED CAPACITY, IS	75003	507
DECCRIMED MY MATHEMATICAL PROSA ILITY, MEAN SQ	75003	5 <b>3</b> 8
LARE DERIVATION AND BY A DISTRIBUTION LAW. TH	75003	509
E L'TTIR IS IFLE APPROXIMATED EM NORMAL DISTRI	75003	510
HITTO LAW WHIN THE KOMMOSOROV CRITERION IS US	75003	511
ED. THE STATISTICAL MODELING METHOD AND ITS P	75003	512
POGRAMMING IS DESCRIBED IN DETAIL.	75003	513 701
ST. TISTICAL ANALYSIS	75003	701
Smips, Poyer PLANTS	75043	702
POWER PLANTS, SHIPS	75003	703
COMPUTERS USE	75003	704
75004	75004	010
GERRHTEU'. + JU • S•	75004 75004	101
THE FXPFRIENCE OBTAINED DURING ASSENBLY OF T	75004	201
URIO GENERATORS ON THE ICERREAKER FENINGE	73004	
5. DOSTROF (IE. 27, AUG. 1961, PP. 56-30	75004 75004	202 (
THIS ARTICLE HAS APPEARED IN A SPLCIAL NUMBER		251 501 }
	75004	90-
OF SUDGETROENIE WHICH REFIRE TO ICEERFAKER LEN	75004	600
IN CMLY.	75004	5.3
TECHNOLOGICAL DETAILS OF THE PROCEDURE MENTION	75004	504
FO IN THE TITLE ARE DISCUSSID. THOSE AGAIN MA	75004	303
M BE CONSIDERIO AS COMMON, IN FOUIPMENTS OF SIM	75004	ο̂ \$ 6 \$
INAP SIZE. MORE ATTENTION IS GIVEN TO THE DES	75004	507 🖥
CRIPTION OF PARTICULAR PROCEDURES THAN TO GENE	75004	50-\$
PAL CO MENTS. TRANSLATION OPTIONAL.	75004	509 🖁
LENTA ICEBREAKER	75004	701
ICEGREAKER LEVIN	75004	702
ICI-FFAKERS, ASSEMBLY	75004	7/12
ASSEMBLY. ICERREAKERS	73004	70/8
JOS-TSAKORS, POWER ERUIPMENT	75004	702
PROFF TOUIPMENT, ICEBREAKERS	75004	701
75005		100 \$
	75005	D IN D 7-7 9-77 7-0 12
FLISTPATOV, F.M.	75005	101 選
	75005	ጋሳን 🍱 🖫
HIGH-CAPACITY SHIP ENGINES.=	1000	201 🍇 (

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SUPPLY AND SUPPLY OF BUILDING	7	٠.
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PP. FIME OF THE SIX BININGSERICS TO BEHAVE APP	72000	• 🖏 •
EARED IN ENGLISH HETHERM 1968 AND 1961.	7:40:	\$15.
SHIPS, ENGINES	7500-	·
ENGINES: CHIPS	7もこしゃ	100
75006	7,50	
CHUKHRIN.L.A.	75045	
KUZMINA,T,M.	754.6	: 62
BRITTLE FRACTURES OF SHIP COLUMNS PARTS.=	75000	251
SUDOSTROENIE, 27, SLP 1961, PP. 81-61	75000	د بـ <u>-</u>
A VERY BRIFF DESCRIPTION OF STEAM BOILER FAILU	75005	
REG INDUCED BY INTERCRYSTALLINE CORROSION IS G	75000 75000	224
IVEN. SOME CASES OF SUCH DAMAGE ARE MENTIONED	75006 75006	\$03
AND PROTECTIVE MEASURES ARE SUGGESTED, THE LA	75006 75006	بر بر برگر
TIER ONES COMSISTING MAINLY OF WATER TREATMENT		
•	75006	200
BY SODIUM NITRATE.	75066	
FAILURE	75006	751
CORRUSION	75005	*52 *52
SHIPS, POWER EQUIPMENT	75006	703
POWER EQUIPMENT, SHIPS	75008	* C +
75007	75567	010
MALISHEVSKIJ, V.E.	<b>75607</b>	
RPECIAL MORKING FEATURES OF PROPELLERS POWER	<b>7</b> 5887	,
EQUIPMENT OF ICEBREAKERS DURING IMPACT OR WED	75007	224
GING OF BLADES IN ICE.=	<b>7</b> 5557	333
SUDOSTROENIE, 27, MAY 1961, PP. 30-33	75007	251
MAIN RISKS AND POSSIBLE DAMAGES TO POWER EQUIP	75007	577
MENT AND TO PROPELLERS RESULTING FROM INTERACT	75007	506
ION OF A PROPELLER WITH ICE ARE LISTED. IN OR	75007	7,00 7,00
DER TO REDUCE SUCH DANGERS, EXCITING SETS MUST	75007	3 0
BE EMPLOYED SO THAT A MORE UNIFORM PERFORMANC	75017	8.3
E OF POWER EQUIPMENT COULD BE OBTAINED. SUCH	75007	
SETS AND OTHER PROTECTIVE MEASURES AND THEIR P	75007 75007	513
ERFORMANCE ON THE ICEMREAKER KAPITAL WELEKHOV	75007 75007	514
		125
ARE DESCRIBED.	75307 75007	າໄ ກິໄລ
THE ARTICLE IS WELL "RITTEN AND GIVES A DETAIL		
ED ACCOUNT OF THE TOPIC. TRANSLATION RECOMMEN	75007 75007	517
DED.	750U7	3.0
ICEBREAKERS, PROPELLIPS	73067	_
PROPELLERS, ICERPEAKERS	75007	~č.
ICEBREAKERS, POWER EQUIPMENT	75667	703
POWER EQUIPMENT, ICHOPEAKERS	75007	704
<b>75</b> 008	<b>7</b> 5098	010
MAKEDON, JU.A.	<b>7</b> 5008	-0-
ON STRENGTH CALCULATION OF SHAFTS OF SHIPS N	<b>7</b> 500c	201
AVIGATING IN ICL.=	75008	202
SUDOSTROENIE, 23, JAN 1957, PP. 14-18	75008	251
THIS ARTICLE EVALUATES CONSTANTS IN A FORMULA	75008	501
FOR STRENGTH CALCULATION OF PROPELLER SHAFTS W	75008	502
HICH IS GIVEN IN THE 1956 DIPECTIONS FOR CLASS	75008	503
IFICATION AND CONSTRUCTION OF SEA STEEL SHIPS	750ca	304
OF THE SEA PEGISTER OF USSR.	75008	
A MORE ACCURATE ESTIMATE OF THESE CONSTANTS IS	75008	
GIVEN FOR THE CASE OF ICEBREAKING SHIPS. VAR	75008 75008	
	75008 75008	
IOUS WAYS OF SHAFT LOADING, RESULTING FROM INT		
ERACTION OF THE PROPELLER WITH ICE, ARE CONSID	7531a	502
ERED. SAYPLE CALCULATIONS ARE PRESENTED FOR I	75008	510

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IC TOWKERLY MISION	7500%	703 🐇
Sinton, scholack scholack	75008	70≥ {
	750.40	010
	# 1009 # 1009	7.0
TWO MICS OF ILEASENCESS AT VILLE AT LITE OF IT To some extensions of the properties water icu.	70009 70009	505
in the state of t	75000	202 200
 - S POSTROUNIE, 29, JEP 1000, PA. W1 <b>-3</b> 0	27078 - 1997	251 251
THIS IS A RIVER OF LARGER ENGINEER CHIZE CRIMM OF T	73 000	
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ARTHUR WERE RETRIEVENED IN BUSINES IN CIPULLIFICAM	75009	ف د د
DIRECTOR OF A STATE OF	75009	50%
ON LEFTRE KIND CYROCO SHOPS LEVEN NO. 1.	75000	£ 10 5
THE HOTICUS SESCREMENT RESPECTA OF LANGE METALS	75069	20 b
ESFORMED ON ICCHREAGER MODOMA. THE KHR OT DE	75009	20"
DY TYPO LONGING OF THE PIOPALLE CHARACTER AND AND TO	75000 75000	50e
E TO THE I TUR CTION OF PROPILLING BLAD & WINH ICO AS INVISTICATED. THE PRINCIPAL SCHOME OF	75.00g	シンド
PO ER UNITS AND OSCIELOGRAMS CATAINED DURING V	75009	<b>-</b>
FAGUREMENT WALL MADANA TRANSLATION RECOMENSED	75009	<u> </u>
A CONTRACT C	75009	513
ICOBÍSAKERA, PONOR BONIPMENT	75009	701
POWER EWUIPMENT, ISCHUREAKERS	75009	702
ICEBREAKERS, DESIGN	75009	703 '
DEGION, IC BROAKERS	75009	704
ICIESEACERS, PROPELLERS	750 <b>.</b> 9	705
PROPELLERS, ICEBREAKERS	750 <b>.</b> 9 75009	706 707
MORKVA CLASS 75010	75010 75010	707 010
- 150 - C - ペーNJKIN®A・1・	75010 75010	7.0
CHIRKOV.V.A.	75010	101 102
POWER PLANT WITH A SULPHUXCTTATION SYSTEM ON	75010	201
A LIME ICEHREAKER.=	75010	202 1
SUDOSTRUINIL, 29, APR 1963, PP. US-39	75010	251 '
THIR IS A BETAILED BLOCKIPTION OF THE POULS PL	75010	50± ₹
ANT AND RELATED FACILITIES OF THE MUSKVA ICEBR	75010	502
ENGERT HASIC SCHENES OF MAIN AND INTROLICY FO	75010	103
WER GENERATION, PROTICTION AND SELF-BACITATION	73010 75010	504
SYMTEMS ARE SHOWN AND DISCUSSED. A COMPARISO N of Service Performance AND producers paramet	75010	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
THE IS GIVEN. TRANSLATION RECOMMENDED.	75010 75010	507 ,
ICIHPEAKIPS, PONER PLANTS	75010 75010	701 à
POWER PLANTS, ICEBROAKERS	75010	702
VOCKVA CLASS	75010	703
ICELPEAKIRS, POWER EQUIPMENT	75010	70年 養
PONER EQUIPMENT, ICEBREAKERS	75310	705 705
78011	75011	010 🖁
GERSHTEIN,U.S.	75011	101
SOBININAMAIA	75011	102
THE AUGUMBLY OF PROPULLER POWER WAITS AND SH	75011	201
#FT6 0° ICQ+6EAKOR EUNQV•=	75011 75011	771-01121 000100000 771-0112121
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G TOMICS ATE DISCUSSED BEVELOP ENT OF VARIOUS  TYPES OF LARGE CAMOO SHIPS, THEIR MAIN TECHNIC  AL CHAMACTERISTICS, NUCLEAR REACTORS, THEIR ME  IGHT, PRICT, MAINTINANCE EXPENSES AND GENERAL  CONCLUSIONS ON IFFECTIVENESS OF VARIOUS CARGO  SHIPS WITH NUCLEAR PROPULSION SHIPS AND GENERAL  TOUTH STANDARD PROPULSION SHIPS AND FOR TOL  TOTORS, MAYELY FOR 1968-7			3 6 0
AL CHAPACTURISTICS, NUCLEAR REACTORS, THEIR MAIN TECHNIC AL CHAPACTURISTICS, NUCLEAR REACTORS, THEIR ME IGHT, PRICT, MAINTINANCE EXPENSES AND GENERAL CONCLUSIONS ON IFFECTIVENESS OF VARIOUS CARGO SHIPS WITH NUCLEAR PROPULSION OF CONTRACTIONS WE TOOM ITH STANDARD PROPULSION OF MADE FOR THE TOOM FUTURE, MAYELY FOR 1965-7			50 <del>-</del> 🥞
IGHT, PRICT, MAINTINANCE EXPENSES AND GENERAL 75017 501 501 501 501 501 501 501 501 501 501			207
CONCLUSIONS ON IFFECTIVENESS OF VARIOUS CARGO 75017 508 STRE UITH NUCLEAR PROPULSIO . COMPANSIONS W 75017 509 FITH STANDARD PROPULSION SHIT IS MADE FOR TOL 75017 510 FUTURE, MARKEY FOR 1965-7 75017 511			200 E
SHIPS WITH NUCLEAR PROPULSIC . COMPANSIONS W 75017 509 6 1TH STANDARY PROPULSION SHIP IS MADE FOR THE 75017 510 6 FUTURE, MAYELY FOR 1965-7 75017 511	CONCLUSIONS ON IFFECTIVENESS OF VARIOUS CARGO		508
THE STANDARD PROPULSION SHOT IS MADE FOR THE TEST TO T	SHIPO USTH NUCLEAR PROPULSTO . LOTPASSIONS N		509 臺
FUTURE: 104V:LY FOR 1965+7 75017 511	ITH STANDARY PROPULSION SHOW IS MADE FOR THE	75317	51C 囊
	FUTURE, MAYILY FOR 1965-7	75017	511 📱

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POTENTIAL SERVICES	, , , , -	
NUCLUA FULL LITTE	'	
CARCO 5-1:5 2012	: .	-
POMER PLANTS CARCO I III		4
7:31 8	* * * *	-
PINJALV, Mele	-, '	
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DA ECONOMY UST. FILE OF SILES ITH MUCLLAR M	77.2	.0-
OHTR PLANTS.=	130.	/¹.
SUDOST KUENS ( ) 28 , APK 1982, 92. 72-72		7. <u> </u>
THIS IS A SIVE & CT OUT NOW LOADS AT COLLECTE		·
ICAN ANTICLE ON THE TETES TOP IC. HON ON IC.	72824	<b>?</b>
REFERENCES, SLE SHIPPLAU HOW I NO EGGS HAVE		
COTPASS, TOSCT UTC SOLL FOR SILL SOLL CONTINUE		•
SONS, THERE IS A RATHER INTERUSTING THE A	72520	52.0
HYPOTHETICAL EXAMPLE OF CIL TAALS A JA JA GA	7501	
OCO TONO TANKER FROM THE GOLF OF PERSIA TO ME	7301x	7 . · ·
W YORK: THE COST OF TRANSPORTATION IS PROTE		
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CARE OF AN AGERICAN SHIP AS BORD IN CASE OF A	75925	-,
N_AVERAGE SHIP OF ANOTHER WISTIPM FLIGH. THE	75016	5.25
DIFFERINCE IS DUE TWINLY TO FACLU. INSURANCE A	75015	,, *
NO AMORTIZATION. IT IS SHOWN THAT SHIPS UNCLE	7401 <i>-</i>	2 _ 4
AR PROPULSION WOULD BE YORE EXPENSIVE, FROM 90	75019	
TO 14.50 PER TOM.	<b>フラレニ</b> さ	
POWER PLANTS, NUCLEAR	7,515	
NUCLEAR POSER PLANTS	75013	
POWER PLANTS, SELECTION	75018	
SELECTION, POWER PLANTS	75,016	
		· -
75019	75019	
KLOCHKOV, S.A.	75019	
SOME REMARKS ON MUCLEAR PUNER PLANTS AND THE	75019	રે 🖫 🗀
IR USE ON ShiPS.=	75019	204
SUDOSTROENIE, 23, HPR 1957, PP. 54-bu	75019	<u> </u>
THIS IS AN EXTENSIVE ARTICLE ON TYPES, TECHNIC	75019	: : : : : : : : : : : : : : : : : : : :
AL PROPERTIES, ARRANGEMENTS ETC. OF NUCLEAR NE	750 <b>1</b> 9	202د
ACTORS AND ON THEIR SULECTION FOR USE Of SHIPS	78019	352
• KCHIMES OF REACTORS AND ASSOCIATED TUBLINES	75019	504
ARE GIVEN. DATA IS COMPILED HAINLY FAXA NEST	75019	100
ERN REFERENCES. HOVEVER, THERE ARE OUVIOUSLY	75019	
MANY MISTAKES IN THE ARTICLE. THOSE ARE SPECI	75019	300 100
	150±3	307
FIED ON THE NEXT REFERENCE (SUDUSTROFNIE 25, O	75019	505
CT 1957).	75,015	p 0 §
POWER PLANTS: NUCLIAR	75019	
NUCLEAR POWER PLANTS	75019	702
POTER PLANTS, SELECTION	75019	700
SELECTION, POWER PLANTS	75019	
750 20	75020	3.3
ALKIXOVICH, A.V.	75020	
MENSHUTKIN, V.V.	75020	-0-
BAEV, C.V.	75020	202
POZDEEV.n.V.	75020 75020	/
MANASJAN, JU.G.	75020	<u> </u>
SHALIK, G.P.	75020	
COMMENTS ON SOME REMARKS ON NUCLEAR POWER PL	75020	201
ANTS AND THEIR USE ON SHIPS.=	75020	201 202
SUDOSTROENIE, 23, OCT 1957	75U2C	231
THIS IS A SHUPT APTICUL VHICH POINTS OUT SIRIO	75020	501
US MISTAKUS IN THE TITLE PUPER MY S. A. KLOCHK	75020	0000
OV (SUUNOTROLNTL 2:, 19:7, FP. 54-60).	75025	
POMER PLANTS, WCLIAR	78020	20 A 2
NUCLEAR POLICE PLANTS	75U20	702
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	7: -22	22
CONTRACTOR	72-24	÷0-
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THOSE ROYCOMD THE STOCKS OF TH	7.02.3	336
- TRANSCATION RECOVERABLE.	723	3
	75025	
27020_SION, N.C.IAR		702
NUCLÉÁR PRÓPULSÍON	75.23	723
75024	₩ . 3 <u>. </u> ₩	# - C
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TITEL SUBJECT. THE THEORY IS GASEL ON THE ERSE	. ∪ c 14 *19. ∪ <u>c</u> 44	
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PROPELLERS, READES 75027 7. 7. . -- J 7):27 75027 75027 75627 72027 73027 HLYDES, PROPILLERS 73027 ICE TELKLAS, PRUPELLERS 75027 PROMOBILERS, ICE-REAKERS 71,025 75025 KRAJKINOA.T.

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•	•		1
	•		
MATHEMATICAL MODELING OF THE INTERACTION OF	• •	5028	201
A PROPELLER WITH ICE.=		5020	202
SUDOSTROENIE, 30, MAR 1964, PP. 32-36		5628	202 %
		5028	251
THIS IS A DETAILED AND ADVANCED STUDY ON MODE		5028	501
ING AND COMPUTER ANALYSIS OF AN ICEBREAKERS	79	5028	502
WER PLANT PERFORMANCE HISTORY DURING INTERACT		5028	503
ON OF THE PROPELLER WITH ICE. IT IS CONCLUDE	_	5028	504
THAT FAST ACTING EXCITATION EQUIPMENT SHOULD	• •	5028	505
BE USED FOR ICEBREAKERS POWER PLANTS, WHICH I		5028	506
ULD OPERATE ONLY DURING THE INTERACTION PERIC	· -	5028	507
. SUCH EQUIPMENT MINIMIZES CHANCES OF WEDGIN		5028	508
OF BLADES IN ICE AND GENERALLY REDUCES THE P		5028	509
OBABILITY OF DAMAGE. THE INFLUENCE OF VARIOU		5028	510
PARAMETERS OF THE POWER PLANT ON THE WEDGING	5 75	5028	511
REGIME IS ANALYZED AND FULLY EXPLAINED. A PR	RO 75	5028	512
GRAMMING PROCEDURE IS DESCRIBED, WHICH MAY BE	75	5028	513
USED TO CALCULATE OPTIMAL PARAMETERS OF A POY		5028	514
R PLANT FROM A GIVEN TIME DISTRIBUTION OF THE		5028	515
ICE MOMENT. SUCH PROCEDURE SHOULD ENSURE BES			516
PERFORMANCE OF THE POWER PLANT AND ITS SMOOT		-	517
RESPONSE TO TRANSIENT EFFECTS. TRANSLATION			518
ECOMMENDED.			519
COMPUTERS USE			701
ICEBREAKERS, POWER PLANTS		028 \{	702
POWER PLANTS, ICEBREAKERS		10	70'3
ICEBREAKERS, POWER EQUIPMENT			704
POWER EQUIPMENT, ICEBREAKERS			705
75029			010
POZDEEV.A.V.			101
CONSTRUCTION OF NUCLEAR POWER PLANTS FOR MI			201
ITARY AND COMMERCIAL VESSELS IN CAPITALIST CO	-		202
NTRIES.=			203
SUDOSTROENIE, 24, JAN 1958, PP. 53-66			251
THIS IS AN EXTENSIVE REVIEW BASED ON WESTERN			501
UNLISTED) REFERENCES. IT SUMMARIZES WORK ON			502
HE TITLE SUBJECT WHICH HAD BEEN DONE OR CONS			503
ERED AT THAT TIME IN THE USA (ABOVE ALL), ENG			504
AND, NORWAY, HOLLAND, FRANCE, SWITZERLAND, AND			505
IN WESTERN GERMANY.			506
NUCLEAR POWER PLANTS			701
POWER PLANTS NUCLEAR			702
75030		-	010
<del>-</del> ·			101
OBSJANNIKOV,M.K. SOME RESULTS OF TESTING OF MAIN ENGINES OF			201
CEBREAKER MOSKVA.= SUDOSTROENIE, 28, JUN 1962, PP. 45-46			202 251
THIS IS A SHORT DESCRIPTION OF PERFORMANCE TE			501
T RESULTS OF THE MOSKVA ICEBREAKER. A VARIET			502
OF DATA IS GIVEN. PLOTS OF OUTPUT CHANGES A			503;
D FUEL CONSUMPTION OF MAIN ENGINES VS. SPEED		•	504
F THE ICEBREAKER ARE SHOWN. TRANSLATION RECO			505
MENDED.			506
MOSKVA ICEBREAKER		-	701;
ICEBREAKER MOSKVA			702
POWER PLANTS, PERFORMANCE TESTS	75	030	703
PERFORMANCE TESTS, POWER PLANTS			704
ICEBREAKERS, POWER PLANTS		5030	705
POWER PLANTS, ICEBREAKERS	75	5030	106
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AORASHADSKI, V.L.	75031	010
ELECTRIC DRIVE FOR THE SCREW OF THE ATOMIC I	75031	101
CEBREAKER LENIN.	75031	201
ELEKTRICHESTVO 10, 1959, P. 50-56	75031	202
THIS IS A DETAILED DESCRIPTION OF THE	75031	251
THIS IS A DETAILED DESCRIPTION OF THE ELECTRIC	75031	501
POWER SYSTEM FOR THE ICERREAKER PROPELLERS.	75031	502
IT INCLUDES MAIN TECHNICAL DATA ON THE ICEBREA	75031	503
KFR. ITS MAIN CURRENT CIRCUIT DIAGRAM AND DETA	75031	504
ILED ACCOUNT OF THE CONTROL SCHEME, INCLUDING	75031	505
ITS STABILIZATION, EXCITATION AND OTHER UNITS.	75031	506
CHEMATIC DRAWINGS AND GRAPHS ARE ATTACHED.	75031	507
TRANSLATION AVAILABLE.	75031	508
ICEHREAKER LENIN	75031	701
LENIN ICEBREAKER	75031	702
ICE BREAKERS, PROPULSION SYSTEMS	75031	703
PROPULSION SYSTEMS, ICEBREAKERS	75031	704
ICEBREAKERS, POWER EQUIPMENT		705
POWER EQUIPMENT, ICEBREAKERS	75031	706
ICEBREAKERS, ENGINES	75031	707
ENGINES. ICEBREAKERS	75031	707 708
75032	75032	
BURNAZYAN,A.I.	75032	• 010
KAMYSHENKO, I.D.	75032	101
	17434	102

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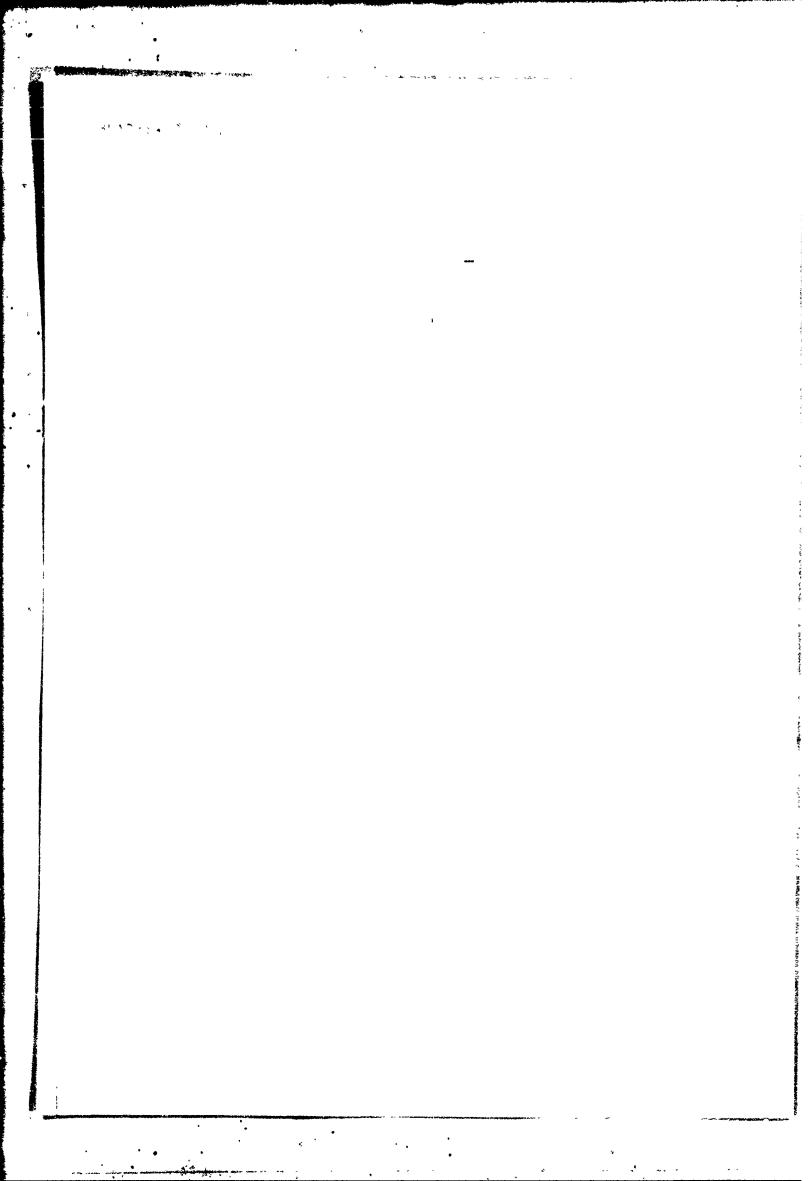
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THIS IS AN IMPROVING TO THE MEMORY OF A CONTROL OF THE CONTROL 75041 7, 2 7206. 75.001 75041 75041 ARE EVALUATE . CLUMPTRATING EXAMPLING ARE SHO 75341 THT 75..... THE PROPERTY OF THE REPORT OF THE PARK OF THE PARK PARTY POTES PLANTS. ALSO THESE TWEET BOTHERS IN PLAT TO THAT TOPIC. SHIPS, PORTO DEATHS ICTHOREK WAS POUR R PLENTS 7:00.1 78.04.1 74.23 Frant TS. SHIDS -- 545 75122 7,0.2 GRECHIN . D. . . . 3014-2 AN EXPERSACT TAL INVESTIGATION OF HYPLOSICANA
ICAL CHARACTERISTICS OF SCAIN PROFILES.= 750- E 750- E TRIATY C.A.I.I. MORSKOGO FLOTA 7, 1956, P. 62-9 730-2 7: 042 7: 042 THIS IS A DESCRIPTION OF TYPERIMENTS MHICE MURP PERFORMED IN TREZHIRSH AT THE LINEWRYAD STAT F PERFORM FO IM TOBER 1953 AT THE LINEAR NO STATE MAINTRACTY. THE PURPOST OF THIS ON NOW, STO OHTHIS CHARACTERISTICS OF A SPECIAL SIMILS OF PROPELLER PROFILES IN FROM TO SUPPLIED THE SECRET THE SECRET TO THE ALSOLET, A MORE ACT FOR TO MAIS HOR CONSTRUCTION OF SPECIAL LOS FITH ICONTACTION AF OMIT HALSIS AND CHARACTERS OF PROPELLIA HEADIS.

PROPELLIAS, HE WAS FROM THE WAS FROM THE STATE OF SHIPS. PROPELLIANS 730-2 710-2 7:0:2 75022 75000 75042 700--7=042 7:042 15-20 פרובק. בא מבנונדסת DOUBLITEES & SHIDE 75342 PEMUANCEMANAS.

APPLICATION OF THIS KITHOD OF 1 SHED STICKE 73043 DECINA FOR INVESTIGATION OF PROCUSES IN AN AL 75.143 C. PRIARLETS BOIRT PLANT. TP 17 Y C. (...). 1 MESKOCK FLOTA 46, 1902, F. 70-72,643 TO TO STORM ON THE TO THE CALL RESIDENCE OF STRUCKED TO STRUCKED T 7 : 3 ....

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J	15047	75047	011
	VAN MANEN, J. C.	75047	101
	SUPERINA, A.	75047	102 \$
7	THE DESIGN OF PROPELLERS IN NOZZLES. =	75047	201
	SCHIFF UND HAPEN, 11, FEB 1959, P. 83-92	75047	251 🖁
	THIS IS A VERY DETAILED PRACTICAL ARTICLE ON T	75047	<u>501</u>
•	HE TITLE TOPIC. IT EXTENDS PREVIOUS WORK OF T	75047	502
	HR FIRST AUTHOR ALONG EXPERIMENTAL LINES AND G	75047	
	IVES THEN A DESCRIPTION OF THE DESIGN PROCEDUR	75047	504
<b>)</b>	E OF PROPELLERS IN NOZZLES. IN PARTICULAR A K	75047	<u>505</u> *
	APLAN TYPE TURBINE IS EMPLOYED AS THE PROPELLE	75047	506 🚦
	R. MANY DESIGN ASPECTS ARE CONSIDEREDINCLUD	75047	507
, _	ING CAVITATION. TRANSLATION OPTIONAL.	75047	508 🖠
	PROPELLERS	75047	701
*******	SHIPS, PROPELLERS	75047	702 💈
•	PROPELLERS, SHIPS	75047	703
	75048	75048	011
	BROWN, T. W. F.	75048	101
,	PROPULSION OF SHIPS BY STEAM TURBINES. =	75048	201
	SCHIFF UND HAFEN, AUG 1958, P. 639-646	75048	<u> 251</u>
	THIS IS A GENERAL ARTICLE ON THE TITLE TOPIC.	75048	501
•	THE USE OF STEAM TURBINES IS REVIEWED AND THE	75048	502
	IR USE IN CONNECTION WITH NUCLEAR REACTORS CON	75048	503 '
	SIDERED IN PARTICULAR BOTH SMALL (7000 HP) AND	75048	504
·	LARGE (22000 HP) TURBINES ARE CONSIDERED, THE	75048	505
	LATTER AT LENGTH.	75048	<u>506</u> :
-	SHIPS, PROPULSION SYSTEMS	75048	701
>	PROPULSION SYSTEMS, SHIPS	75048	702
	PROPULSION, STEAM	75048	703
	STRAM PROPULSION	75048	704
·	PROPULSION NUCLEAR	75048	705
	NUCLEAR PROPULSION	75048	706
	75049	75049	011
	SCHWANECKE, H.	75049	101
	A CONTRIBUTION TO THE PROBLEM OF LONGITUDINA	75049	201
	L AND TORSIONAL VIBRATION OF SHIP PROPELLER SH	75049	202
5	APTS.=	75049	203
	SCHIFF UND HAFEN, DEC 1958, P. 979-987	75049	251
_	THIS IS A DETAILED THEORETICAL ARTICLE ON VIBR	75049	501
5	ATION OF THE SHIP SHAFT-PROPELLER SYSTEM UNDER	75049	502
_	SERVICE CONDITIONS. THE SYSTEM IS IDEALIZED	75049	503

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	FACHED TO A PARALLEL SPRING	75049	50
DASHPOT UNIT, AND	THE VIBRATION PROBLEM IS SO	75049	50
	IZATION. TRANSLATION OPTIO	75049	50
NAL.		75040	50
PROPELLERS, SHAFTS		75049	70
SHAFTS, PROPELLERS		75049	70
SHIPS, PROPULSION S		75049	70
PROPULSION SYSTEMS,	SHIPS	75049	79
75050		75050	01
WEICKER, D.	RS FOR VERY FAST SHIPS.=	75050	
SCHIFF UND HAPEN, J		75050 75050	20 25
	AL ARTICLE ON DESIGN ANALYS		
	LOW UNDER PULLY DEVELOPED C	75050 75050	50 50
	OF PROPELLER BLADES ARE STU	75050 75050	50
	W AND CAVITATION PLOW AND I	75050 75050	50 50
	A SUITABLE CHOICE CAN BE M	75050	50
	SPACTORY SERVICE UNDER BOTH	75050 75050	50
	OMMENDED PROCEDURE FOR DESI	75050	5(
GN OF SUCH PROPELLE		75050	50
PROPELLERS		75050	70
SHIPS, PROPELLERS		75050	70
PROPELLERS, SHIPS		75050	70
75051		75051	0
GUTSCHE		75051	10
PROPELLERS IN NOZ	ZLES - THEORY AND EXPERIMEN	75051	20
T. =		75051	20
SCHIPP UND HAPEN, D	EC 1959, P. 1112-1116	75051	25
THIS IS A REPRINT O	F A LECTURE. THEORETICAL W	75051	50
	H EXPERIMENTS IN STUDIES OF	75051	5(
PROPELLERS IN NOZZ	LES. THE LECTURE IS DIVIDE	75051	50
	THE FIRST TWO ARE DEVOTED	75051	50
	CREW AND TO THE NOZZLE WHIL	75051	50
	IES THE EFFICIENCY OF THE C	75051	50
	E DISCUSSION IS ATTACHED.	75051	50
PROPELLERS		75051	7(
SHIPS, PROPELLERS		75051	70
PROPFLLERS, SHIPS		75051	70
75052		75052	0
BUSCH, J.	NAC STAN ALE SERVICES AND AN AN	75052	10
	NTS WITH GAS TURBINES ON SH	75052	20
IPS.=	0 ppp 4050 p 403.406	75052 75052	20
	0, PEB 1958, P. 123-126	75052 75052	25
	NERAL DISCUSSION ON USE OF LEAR POWER PLANTS ON SHIPS.	75052 76053	<u> </u>
	STEAM TURBINES IS MADE. S	75052 75052	5(
		<u>75052</u> 75052	5(
ARE DESCRIBED IN M	LLER UNITS, ABOUT 10000 HP,	75052 75052	5(
PROPULSION, NUCLEAR		75052 75052	
NUCLEAR PROPULSION		75052 75052	7(
SHIPS, PROPULSION S	YSTEMS	75052	7(
PROPULSICA SYSTEMS,		75052	70
PROPULSION, STEAM	W 11	75052	7(
STEAM PROPULSION		75052 75052	70
75053		75053	.0.
VANICK, J. S.		75053	1(
	BRONZE FOR SHIP PROPELLERS	75053	20
IN ARCTIC WATERS .=		75053	2(
	OCT 1956, P. 843-844	75053	2

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THIS	IS A SHORT ARTICLE ON AMERICAN CONTRIBUTE	75053	50
	THE TIPLE TOPIC. THE WORK DONE AT R. AN	75053	50
D D.	OF INTERNATIONAL NICKEL COMPANY IS SHORTL	75053	50
	SENTED. CAVITATION RESISTANCE EXPERIMENT	75053	50
	REPORTED, AS WELL AS MECHANICAL PROPERTI	75053	50
	D TOUGHNESS AT LOW TEMPERATURES.	<u>75053</u>	<u>50</u>
	EAKERS, PROPELLERS LLERS, ICFBREAKERS	75053 75053	70 70
	LLERS, BLADES	75053 75053	70
	S, PROPELLERS	7505 <u>3</u>	70
75054		75054	01
	OCKS, K.	75054	10
	CHA, H.	75054	10
	LEAR REACTORS AS ENERGY SOURCES FOR PROPU	75054	20
	OF MERCHANT SHIPS.=	75054	20
THIC	TP UND HAFEN, MAR 1957, P. 210-214  IS A SUMMARY OF A LECTURE BY THE FIRST AU	75054 75054	25 50
	(WHO WAS AT THE UNIVERSITY OF MICHIGAN AT	75054 75054	50
	TIME). VARIOUS TYPES OF NUCLEAR REACTOP	75054	50
	DISCUSSED FROM THE VIEWPOINT OF THEIR US	75054	50
Z ON	SHIPS. EXPERIENCE WHICH WAS OBTAINED ON	75054	50
	ER SUBMARINE PROJECTS IS EVALUATED.	75054	50
	, PROPULSION SYSTEMS	75054	70
	LSION SYSTEMS, SHIPS	75054	70 70
	CAR PROPULSION ULSION, NUCLEAR	75054 75054	70
75055		75055 75055	01
	J. D.	75055	10
	ACHIEVEMENTS IN RESEARCH ON PROPELLERS I	75055	20
	ZLES.=	75055	20
	F UND HAFEN, FEB 1957, P. 101-121	75055	25
	IS AN EXTENSIVE AND DETAILED SUMMARY OF T	75055 75055	<u>50</u>
	TLE TOPIC. IN ADDITION TO GENERAL CONSIDONS OF THE PROBLEM: EXPERIMENTAL WORK IS	75055 75055	50 50
	TED ON THE PROPELLER-NOZZLE SYSTEM. THE		50
	RTIES AND SIZE OF THE BLADES ARE CONSIDER	75055	50
	PARATELY. THEN, THE OPTIMUM DIAMETER OF	75055	50
	ROPELLER AND OF THE NOZZLE IS FOUND FOR T	75055	50
	RTICULAR CONDITIONS WHICH EXIST BEHIND A	75055	50
	A SPECIAL SECTION IS DEVOTED TO VARIOUS	75055	50
	CTS OF THE SCREW DESIGN FOR PROPELLERS IN	75055 75055	51 51
	LES. MANY DIAGRAMS ARE INCLUDED TO FACIL DESIGN.	75055 7505 <b>5</b>	51
	LLERS	75055	
	, PROPULSION SYSTEMS	75055	70
	LSION SYSTEMS, SHIPS	75055	70
75056		75056	01
	, K. T.	75056	10
	R, H.	75056	10
	VARIOUS METHODS OF ANALYSIS OF PFFICIENCY	75056 75056	20 20
	CREW PROPELLERS.=	75056	25 25
	YP UND HAPFN, AUG 1957, P. 160-165 IS A DETAILED ARTICLE ON THE TITLE TOPIC.	75056	<u> </u>
	ERAL METHODS OF ANALYSIS ARE COMPARED AND	75056	50
	ICALLY EVALUATED AND RECOMMENDATIONS GIVE	75056	50
N POE	DESIGN.	75056	50
SHIPS	, PROPULSION SYSTEMS	75056	70
	LSION SYSTEMS, SHIPS	75056	70
PROPE	CLLERS	<b>7</b> 5056	70

.. .: :

75057	<b>7</b> 5057	
PANCETT, S.	75057	
A COMPARATIVE STUDY OF VARIOUS NUCLEAR SHIP	<b>7</b> 505 <b>7</b>	
PROPULSION SYSTEMS OF THE BRITISH ATOMIC ENERG	<u>75057</u>	
Y AUTHORITY.=	75057	
SCHIFF UND HAFEN, FRB 1960, P. 128-137	<u> 75057</u>	
THIS IS AN EXTENSIVE AND DETAILED STUDY ON THE	75057	
TITLE TOPIC. FIVE TYPES OF REACTORS AGE CONS	<u>75057</u>	
IDERED. BASIC DESIGN CONCEPTS ARE DESCRIBED,	75057	
WITH MANY DRAWINGS, AS WELL AS COMPARATIVE TAB	75057	
LES ATTACHED. DESIGN AND SAFFTY PROBLEMS, ECO	75057	
NOMY OF INVESTMENT AND OPERATION ARE CONSIDERE	75057	
D.	75057	
SHIFS, PROPULSION SYSTEMS	<b>7</b> 505 <b>7</b>	
PROPULSION SYSTEMS, SHIPS	<b>75</b> 05 <b>7</b>	
NUCLEAR PROPULSION	75057	
PROPULSION, NUCLEAR	<b>7</b> 505 <b>7</b>	
75058	<b>7</b> 5058	
HEPDURN, W. A.	75058	
SPECHT, D. H.	75058	
A COMPARISON OF NUCLEAR SHIP PROPULSION SYST	75058	
EMS.=	75058	
SCHIFF UND HAFEN, FEB 1960, P. 137-143	75058	-
THIS IS A REVIEW OF AMERICAN WORK ON DEVELOPME	<b>7</b> 5058	
NT OF NUCLEAR REACTORS FOR SHIP PROPULSION. F	75058	
OUR PEACTOR TYPES ARE CONSIDERED AND EVALUATED	75058	
IN DETAIL. THE U. S. S. SAVANNAH IS DISCUSSE	75058	
D ALSO.	75058	
SHIPS, PROPULSION SYSTEMS	75058	
PROPULSION SYSTEMS, SHIPS	75058	
NUCLEAR PROPULSION	75058	
PROPULSION, NUCLEAR	75058	
75059	75059	
PARIS, P.	75059	
THE DESIGN OF A SHIP NUCLEAR FEACTOR WHICH I	75059	
S MODERATED AND COOLED BY AN ORGANIC MATTER. =	75059	
SCHIFF UND HAFEN, FEB 1960, P. 149-151	75059	
THIS IS A SHORT BUT DETAILED ARTICLE ON THE TI	75059 75059	
TLE REACTOR, ITS CAPACITY IS ABOUT 10000 HP.	75059	
	75059 75059	
THE ARTICLE CONTAINS ACTUAL RESULTS WHICH WERE	<b>7</b> 5059	
OBTAINED UNDER AN INTERATOM PROGRAM, SPONSORE	75059 75059	
D BY ARC AND NORTH AMERICAN AVIATION.	75059 75059	
SHIPS, PROPULSION SYSTEMS	75059 75059	
PROPULSION SYSTEMS, SHIPS		
NUCLEAR PROPULSION	75059	
PROPULSION, NUCLEAR	<u>75059</u>	
75060 .	75060 76060	
BUSCH, J.	75060 75060	
GAS-COOLED NUCLEAR REACTORS FOR STEAM TURBIN	75060 75060	
ES SHIP PROPULSION SYSTEMS.=	<u>75060</u>	
SCHIFF UND HAFEN, PEB 1960, P. 152-153	75060	
THIS IS A SHORT ARTICLE WHICH DESCRIBES MAINLY	75060	
REACTORS COOLED BY CARBONDIOXIDE.	<b>7</b> 5060	
SHIPS, PROPULSION SYSTEMS	75060	
PROPULSION SYSTEMS, SHIPS	75060	
NUCLEAR PROPULSION	75060	
PROPULSION, NUCLEAR	75060	
75061	75061	
BRUCHNER, H. J.	75061	

.

	SPECIAL FRATURES OF BOILING WITER REACTORS I	75061	
N	SHIP PROPULSION.=	75061	
	HIFF UND HAFEN, FEB 1960, P. 154-155	75061	
	HIS IS A SHORT ARTICLE ON THE TITLE TOPIC. I	75061	
	PARTICULAR, THE FEATURES CONSIDERED INCLUDE	75061	
	E INFLUENCE OF SHIP MOTION ON REACTIVITY OF	75061	
	BOILING WATER REACTOR, THE REGULATION OF T	75061	
	REACTOR FROM THE VIEWPOINT OF SHIP MANEUVER	75061	
-	RADIATION SAFETY WITH RESPECT TO THE POSSIBI TY OF LEAKS INTO THE STEAM SYSTEM.	75061 75061	
_	IPS PROPULSION SYSTEMS	75061 75061	<del></del>
	OPULSION SYSTEMS, SHIPS	75061 75061	
	CLEAR PROPULSION	75061	
	OPULSION, NUCLEAR	75061	
	EAM PROPULSION	75061	
	OPULSION, STEAM	75061	
7:	0n2	75062	
N E	ILSON, I. D.	75062	
	POSSIBLE REDUCTIONS IN OPERATION COSTS IN US	75062	
	OF ORGANIC MODERATED REACTORS FOR SHIP PROPU	75062	
	ION.=	75062	
	HIFF UND HAFEN, FEB 1960, P. 156-159	75062	
	IS IS PRIMARILY AN ECONOMY STUDY ON THE TITL	75062	
	TOPIC. SOME OF THE REACTOR TYPES ARE SHOWN	75062	
	D COMPARED AND IT IS CONCLUDED THAT THE PART	75062	
_	ULAR TYPE IN QUESTION IS MOST SUITABLE FOR S	75062	
	FACE SHIPS.	75062 75062	
	IPS, PROPULSION SYSTEMS OPULSION SYSTEMS, SHIPS	75062 75062	<del></del>
	CLEAR PROPULSION	75062 75062	
	OPULSION, NUCLEAR	75062 75062	
	063	<b>7</b> 5063	
	ILLMANN, W.	75063	
	SOME PROBLEMS OF HELIUM-TURBINES FOR NUCLEAR	75063	
E	OWER PLANTS. =	75063	
sc	HIFF UND HAFEN, FEB 1960, P. 161-163	<u>75063</u>	
	E TITLE TOPIC IS SHORTLY DISCUSSED FOR THE C	75063	
	E OF A 10000 HP TURBINF.	75063	
	IPS, PROPULSION SYSTEMS	75063	
	OPULSION SYSTEMS, SHIPS	75063	
	CLEAR PROPULSION	75063	
	OPULSION, NUCLEAR	75063 75064	
	NORSKY, V. U.	75064 75064	
:11	A STUDY ON SHIP COLLISIONS WITH REGARD TO SH	75064	
TE	STRUCTURAL SAFETY MEASURES FOR NUCLEAR PROP	75064	
	SION SYSTEMS.=	75064	
	HIFF UND HAFEN, PEB 1960, P. 163-166	75064	
	IS IS A SHORT ARTICLE ON THE TITLE TOPIC. T	75064	
	SAPETY CRITERIA ARE GIVEN BY ENERGY METHODS	75064	
C	N THE ASSUMPTION THAT A COLLISION IS CHARACT	75064	
	IZED BY COMPLETELY PLASTIC RESPONSE OF A SHI	75064	
	STIUCTURE.	75064	
~	CLEAR PROPULSION	75064	
	OPULSION NUCLEAR	75064	
	IPS, COLLISION	75064	
	LLISION, SHIPS	75064	
	IPS, DAMAGE	75064	·········
D	MAGE, SHIPS	75064	

· · ·

75065	75065	01
IGNATIV, M. A.	75055	<u> 10</u>
STRENGTH CALCULATION OF PROPEILER BLADES OF	75065 75065	20 20
ICE-GOING SHIPS.= PROBLEMY ARKT. I ANTARKT., 16, 1964, P. 75-82	<u>75065</u> 75065	<u></u> 25
TRIS IS A DETAILED ARTICLE ON ANALYSIS OF FORC	75065	50
ES WEICH ACT ON PROPELLER BLADES SOTH IN FREF	75065	50
WATER AND IN AN ICF FIELD. THE LATTER CASE IS	75065	50
STUDIED IN GREAT DETAIL. BOTH STATIC AND DYN	75065	50
AMIC LOADS ARE CONSIDERED IN THE PLANE OF THE	73065	50
PROPELLER AND IN THE LONGITUDINAL DIRECTION.	75065	50
PERTINENT RECOMMENDATIONS ARE MADE FOR SHIPS O	75065	50
P VARIOUS ICE CLASSAS. A NUMERICAL EXAMPLE IS	75065	50
WORKED OUT AND CHARACTERISTICS OF SEVERAL REC	75065	
ENT ICEBREAKERS ARE COMPARED. TRANSLATION REC	75065	51
OMMENDED.	75065	51
PROPELLERS, SLADES	75065	70
BLADES, PROPELLERS	75065	70
ICFBREAKERS, PROPELLERS	<b>7</b> 5065	70
PROPELLERS, ICEBEFAKERS	75065	<u>7</u> 0
ICEBREAKERS, PROPULSION SYSTEMS	75065	70
PROPULSION SYSTEMS, ICHBESAKERS	75065	<u></u>
75066	75066	01
IGNATEV, M. A.	75066	10
DETERMINATION OF THE LOADS ACTING ON PROPELL	75066	20
ER BLADES.=	<u>75066</u>	3c 3c
PROBLEMY ARKT, I ANTARKT., 15, 1964, P. 41-51	75066	25 50
THIS IS AN EXTENSIVE AND DETAILED ARTYCLE ON E	75066 <b>7</b> 5066	50 50
XPERIMENTAL MEASUREMENTS OF ICE MOMENTS VS. TI ME ON SEVERAL MODERN SOVIET ICERREAKERS OF VAR	75066	50 50
IOUS POWER CAPACITIES, FROM 3500 TO 7200 HP ON	75066	50
ONE SHAFT. IT IS CONCLUDED THAT SHOPT-TIME I	75066	50
CE LOADS ON PROPELLER BLADES MAY AMOUNT TO FOU	<b>7</b> 5066	50
R TIMES THE VALUE WHICH CORPESPONDS TO A MOORI	75066	50
NG REGIME. THEREFORE, THE SYSTEMS OF ENGINE A	75066	50
UTOMATIC REGULATIONS SHOULD PERMIT SUCH SHORT	75066	50
TIME PEAK PERFORMANCE OF THE PROPULSION SYSTEM	75066	51
IN ORDER TO PREVENT ARREST AND DAMAGE TO THE	75066	51
BLAUES. TRANSLATION OPTIONAL.	75066	51
PROPELLERS, BLADES	75066	70
BLADES, PROPELLERS	75066	70
ICEBREAKEPS, PROPELLERS	75966	70
PROPELLERS, ICEBREAKERS	75066	70
ICEBREAKERS, PROPULSION SYSTEMS	75066	70
PROPULSION SYSTEMS, ICEBREAKERS	75066	70
75067	75067	01
KALLIPKE, P.	75067	10
ADJUSTABLY PITCH PROPFLIERS. =	75067	20
SCHIFF UND HAFEN, NOV 1957, P. 882-893	75067	25
THIS IS AN EXTENSIVE ARTICLE ON THE HISTORY OF	75067	50
DEVELOPMENT AND ON CURRENT PROBLEMS RELATED T	75067	50
O ADJUSTABLE PROPELLERS FOR SUIPS. THE PIRST	75067 75067	50
PART OF THE ARTICLE DEALS WITH MECHANICAL AND	75067 75067	50
RYDRAULIC PROBLEMS. MANY INDIVIDUAL SUBTOPICS	7506 <b>7</b>	<u>50</u>
ARE DISCUSSED, AT VARIABLE LENGTH, AND SEVERA	7506 <b>7</b> 7506 <b>7</b>	5( 5(
L DETAILED DRAWINGS AND TABLES REFERRING TO AC	75067 75067	50
TUAL STRUCTURES ARE GIVEN. FOR CONTINUATION S	75067 75067	5(
PROUBLIERS	75067 75067	70
PROPELLERS	19901	, (

. .

	PROPELLER PLACES	75067	702
	BLADES, PRODELLER	75067 75767	703
	SHIPS, PROPULSION SYSTEMS	7566 <b>7</b>	704
	PROPULSION SYSTEMS, SHIPS 75068	<u>75067</u> 75068	<u>705</u> 011
	KALLIPKH, F.	75068	101
_	ADJUSTABLE PITCH PROPELLERS.=	75068	201
	SCULT UND UNTEN, DEC 1957, P. 1085-1097-	75068	201
	THIS IS THE SECOND PART OF THE ARTICLE. FOR T	75068	501
	HE FIRST PART SEE 75067. HERE, THE INFLUENCE	75068 75068	502
	OF THE PROPELLER ON SHIPS CONTROL AND MANEUVE	<b>7</b> 5068	503
	R 18 DISCUSSED. EXTENSIVE ATTENTION IS ALSO G	<b>7</b> 5068	504
	IVEN TO THE USE OF ADJUSTMENT AS A PART OF THE	75068	505
	REGULATION SYSTEM OF THE ENTIRE PROPULSION SY	75068	506
	STEM. FINALLY, POSSIBILITIES OF MANEUVER FOR	75068	507
	SHIPS WITH ONE OR MORE ADJUSTABLE PROPELLERS I	75068	508
	S DISCUSSED. BRIEF ATTENTION IS GIVEN TO PERF	75068	509
	ORMANCE IN ICE, WHICH IS FAVORABLE. 65, MAINL	75068	510
	Y GERMAN ERFERENCES ARE GIVEN.	75068	511
	PROPELLERS	75068	701
	PROPELLER BLADES	75068	702
	BLADES, PROPELLER	<b>7</b> 5068	703
	SHIPS, PROPULSION SYSTEMS	75068	704
	PROPULSION SYSTEMS, SHIPS	<b>7</b> 5068	705
	75069	75069	011
	HASBACH, F.	<b>7</b> 5069	101
	FREF VIBRATION FREQUENCIES OF SHIP PROPELLER	75069	201
	S IN AIR AND IN WATER.=	75069	202
	SCHIFF UND HAVEN, NOV 1957, P. 977-981	<b>7</b> 5069	251
	THIS IS BOTH A THEORETICAL AND EXPERIMENTAL ST	75069	<u>501</u>
	UDY ON DETERMINATION OF FREE VIBRATION FREQUEN	75069	502
	CIES OF SHIP PROPELLERS. THE THEORETICAL PART	75069	503
	INCLUDES A COMPUTATIONAL PROCEDURE WHICH IS I	75069	. 504
	LLUSTRATED BY A WORKED EXAMPLE, LEADING TO DET	75069	505
	ERMINATION OF THE FREQUENCY, BOTH THE MATERIAL	75069	506
	PROPERTIES OF THE BLADES AND THE INFLUENCE OF	75069 75069	507
	TOLERANCE ARE INCLUDED. FOR CONTINUATION SEE	75069 75060	508
	75670.	75069 75060	509
	PROPELLERS	75069 75069	701 702
	PROPELLER BLADES	<b>7</b> 5069	703
	BLADES, PROPELLER SHIPS, PROPULSION SYSTEMS	75069 75069	703
	PROPULSION SYSTEMS, SHIPS	75069	705
	75070	75070	011
	HASBACH, E.	75070	101
	FREE VIBRATION FREQUENCIES OF SHIP PROPELLER	75070	201
	S IN AIR AND IN WATER.=	75070	202
	SCHIPF UND HAFEN, DEC 1957, P. 1079-1084	75070	251
	THIS IS A CONTINUATION OF 75069. IT CONTAINS	7507C	501
	THE EXPERIMENTAL RESULTS OF MEASUREMENTS WHICH	75070	502
	WERE PERFORMED ON VARIOUS PROPELLERS. THE VI	75070	503
	BRATION MODES OF BLADES ARE SHOWN BOTH FOR BEN	75070	504
	DING AND TORSIONAL VIBRATIONS. ALSO, MEASUREM	75070	505
	ENTS WERE PERFORMED WITH PROPELLIRS SUBMERGRD	75070	506
	IN VARIOUS DEPTH OF SALT WATER. THOSE ARE COM	75070	507
	PARED WITH RESULTS OBTAINED IN AIR. A DECREAS	75070	508
	E BY 30 TO 40 PERCENT IN THE FREQUENCIES WA' O	75070	509
	BSERVED IN WATER.	75070	510
	PROPELLERS	75070	701

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SHIPS, PROPULSION SYSTEMS   75070   75070   75070   75070   75070   75070   75070   75070   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75071   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75072   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073   75073	PULSION ARE DESCRIBED. ONE OF THOSE IS A 230	75073	5
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SHIPS, PROPULSION SYSTEMS PROPULSION SYSTEMS, SHIPS 75071 75071 ROPRECKLI, Y. Y. 75071 ROPRECKLI, Y. Y. 75071 ROPRECKLI, Y. Y. 75071 ROPRECKLI, Y. Y. 75071 RAYIN, V. F. 75071 A STUDY ON THE INTERACTION RETWEEN A PROPELL 75071 PR AND A HULL IN KOORING REGIME.= 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 1, 1958, P. 11-19 75071 THIS IS A DETAILED ARTICLE, COVERING ROTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 IT IS CONCLUED THAT THE SUBAL ASSUMPTION WP 75071 ICH REPLACES THE ACTION OF THE TOPPLLIFE SCREW 75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071 HE PROPELLEK. HENCE, THE SAME EQUATIONS MAY R 75071 HE PROPELLEK. HENCE, THE SAME EQUATIONS MAY R 75071 SINK. TRANSLATION OPTIONAL. 75071 SINK. TRANSLATION OPTIONAL. 75071 SINK. TRANSLATION OPTIONAL. 75071 SHIP PROPULSION SYSTEMS 75071 PROPULSION SYSTEMS, SHIPS 75071 PROPULSION SYSTEMS, SHIPS 75072 KCPEECKLI, V. V. 0N A TERM IN THE THEORY OF SCREW PROPELLERS. 75072 TRUDY LENINGRAD KORABLESTROI TEL. INST., XXII, 75072 THIS IS A SHORT THEORETICAL ARTICLE ON A TERM 75072 THE (2 - HI)/HI, WHERE H2 AND H2 ARE PITCHES 75072 PROPELLERS. 75072 PROPELLERS. 75073 SCHUSTER, S. 75073 SCHUSTER, J. 75073 JARRAUGH DER SCHIFFEBUTECHN, GESFLLSCHAFT, 54, 75073	·		5
SHIPS, PROPULSION SYSTEMS PROPULSION SYSTEMS, SHIPS 75071 75071 75071  KOPERCKLI, V. V. 75071  ROPERCKLI, V. V. 75071  A STUDY ON THE INTERACTION RETWEEN A PROPELL 75071  A STUDY ON THE INTERACTION RETWEEN A PROPELL 75071  TRUDY LININGRAD, KORABLESTROIT. INSTITUTA, XXI 75071  TRUDY LININGRAD, KORABLESTROIT. INSTITUTA, XXI 75071  THIS IS A DETAILED ARTICLE, COVERING ROTH THE 75071  THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071  IT IS CONCLUDED THAT THE SHUAL ASSUMPTION WF 75071  ICH REPLACES THE ACTION OF THE COPPLLIER SCHEW 75071  BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071  BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071  BY ASYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071  BUSED FOR BOTH CASES. THIS IS NOT TRUE, HOWE 75071  BUSED FOR BOTH CASES. THIS IS NOT TRUE, HOWE 75071  SINK. TRANSCATION OPTIONAL. 75071  SHIP PROPELLES IN SHIPS 75071  SHIP PROPELLES SHIPS 75071  PROPPLIED STATEM OF THE THEORY OF SCREW PROPELLERS, 75071  PROPPLIED STATEM. SHIPS 75071  FROPPLISTON SYSTEMS, SHIPS 75071  PROPPLISTON SYSTEMS, SHIPS 75071  TOTO A TERM IN THE THEORY OF SCREW PROPELLERS, 75072  TRUDY LENINGRAD KORABLESTROI TEL. INST., XXII, 75072  TRUDY LENINGRAD KORABLESTROI TEL. INST., XXII, 75072  THIS IS A SHORT THEORETICAL ARTICLE ON A TERM 75072  THIS IS A SHORT THEORETICAL ARTICLE ON A TERM 75072  THIS IS A SHORT THEORETICAL ARTICLE ON A TERM 75072  THIS IS A SHORT THEORETICAL ARTICLE ON A TERM 75072  THIS IS A SHORT THEORETICAL ARTICLE ON A TERM 75072  THIS IS A SHORT THEORETICAL ARTICLE ON A TERM 75072  THIS IS A SHORT THEORETICAL ARTICLE ON A TERM 75072  THIS IS A SHORT THEORETICAL ARTICLE ON A TERM 75072  THE PROPELLERS 75073  SCHUETHER, S. 75073  SCHUETHER, S. 75073  SCHUETHER, M. 75073			2
SHIPS, PROPULSION SYSTEMS			3
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### SHIPS, PROPULSION SYSTEMS		<b>7</b> 50 <b>7</b> 2	5
### SHIPS, PROPULSION SYSTEMS			<u> </u>
SHIPS, PROPULSION SYSTEMS, SHIPS 75070 PROPULSION SYSTEMS, SHIPS 75071 KOPERCKIJ, V. V. 75071 BAVIN, V. F. A STUDY ON THE INTERACTION BETWEEN A PROPELL 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 THIS IS A DETAILED ARTICLE, COVERING ROTH THE 75071 THEORETICAL ANALYSIS AND EXPREMENTAL RESULTS. IT IS CONCLULED THAT THE USUAL ASSUMPTION WP 75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071 BY A SYSTEM OF DISTRIBUTED STINKS GIVES GOOD R 75071 BY A SYSTEM OF DISTRIBUTED STINKS GIVES GOOD R 75071 E USED FOR BOTH CASES. THIS IS NOT TRUE, HOWE 75071 FURELLERS. HENCE, THE SAME EQUATIONS MAY B 75071 SINK. TRANSLATION OPTIONAL. 75071 SINK. TRANSLATION OPTIONAL. 75071 SHIP PROPELLE S HEPRESENTED BY A UNIT 75071 PROPULSION SYSTEMS. 75071 PROPULSION SYSTEMS. 75071 PROPULSION SYSTEMS. 75071 PROPULSION SYSTEMS. THIS IS TOT TRUE, HOWE 75071 PROPULSION SYSTEMS. 75072 THE DEAL OF THE SAME PROPELLERS. 75072 TRUDY LENINGRAD KORABLESTROI TEL. INST., XXII, 75072 TRUDY LENINGRAD KORABLESTROI TEL. INST., XXII, 75072 THIS IS A SHORT THEORETICAL ARTICLE ON A TERM. 75072 THIS IS A SHORT THEORETICAL ARTICLE ON A TERM. 75072 THIS IS A SHORT THEORETICAL ARTICLE ON A TERM. 75072			9
SHIPS, PROPULSION SYSTEMS, SHIPS 75070 PROPULSION SYSTEMS, SHIPS 75071 KOPERCKIJ, V, V. 75071 BAVIN, V. F. A STUDY ON THE INTERACTION RETWEEN A PROPELL 75071 ER AND A HULL IN MOORING REGIME. = 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 THIS IS A DETAILED ARTICLE, COVFRING ROTH THE 75071 THEORETICAL ANALYSIS AND EXPRRIMENTAL RESULTS. IT IS CONCLULED THAT THE USUAL ASSUMPTION WF 75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 HE PROPELLER. HENCE, THE SAME EGUATIONS MAY R 75071 E USED FOR BOTH CASES. THIS IS NOT TRUE, HOWE 75071 SINK. TRANSLATION OPTIONAL. 75071 SINK. TRANSLATION OPTIONAL. 75071 SHIP PROPELLE S HEPRESENTED BY A UNIT 75071 PROPULSION SYSTEMS 75071 PROPULSION SYSTEMS 75071 PROPULSION SYSTEMS, SHIPS 75072 THE PROPELLER. THE THEORY OF SCREW PROPELLERS. 75072 TRUDY LENINGRAD KORABLESTROI TEL. INST., XXII, 75072 TRUDY LENINGRAD KORABLESTROI TEL. INST., XXII, 75072 THIS IS A SHORT THEORETICAL ARTICLE ON A TERM 75072			5
SHIPS, PROPULSION SYSTEMS, SHIPS 75070 775071 75071 75071 75071 75071 75071 75071 75071 75071 8AVIN, V. F. A STUDY ON THE INTERACTION BETWEEN A PROPELL 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 THAS IS A DETAILED ARTICLE, COVERING BOTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 TIS CONCLUDED THAT THE USUAL ASSUMPTION WF 75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071 BE USED FOR BOTH CASES. THIS IS NOT TRUE, HOWE 75071 BE USED FOR BOTH CASES. THIS IS NOT TRUE, HOWE 75071 SINK. TRANSLATION OPTIONAL. 75071 SINK. TRANSLATION OPTIONAL. 75071 SINP PROPELLER IS REPRESENTED BY A UNIT 75071 PROPELLERS, SHIPS 75071 PROPELLERS, SHIPS 75071 PROPELLERS, SHIPS 75071 PROPULSION SYSTEMS 75071 PROPULSION SYSTEMS, SHIPS 75072 KCPBECKIJ, V. V. 75072 TRUDY LENINGRAD KORABLESTROI TEL. INST., XXII, 75072 TRUDY LENINGRAD KORABLESTROI TEL. INST., XXII, 75072			
SHIPS, PROPULSION SYSTEMS, SHIPS 75070 PROPULSION SYSTEMS, SHIPS 75071 TOTT ROPERCKIJ, V. V.  BAVIN, V. F. A STUDY ON THE INTERACTION BETWEEN A PROPELL TS071 ER AND A HULL IN MOORING REGIME.= TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI T5071 THUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI T75071 THIS IS A DETAILED ARTICLE, COVERING ROTH THE T75071 THES IS A DETAILED ARTICLE, COVERING ROTH THE T75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. T75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW T75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW T75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R T75071 ESULTS BOTH FOR LICHT AND FOR HEAVY LOADS OF T T75071 HE PROPELLEN. HENCE, THE SAME EQUATIONS MAY B T75071 YER, IF THE PROPELLER IS REPRESENTED BY A UNIT T75071 SINK. TRANSLATION OPTIONAL. T75071 PROPULSION SYSTEMS T75071 PROPULSION SYSTEMS T75071 PROPULSION SYSTEMS T75071 PROPULSION SYSTEMS, SHIPS T75072 KCPEECKIJ, V. V. T75072 TRUDY LENINGRAD KORABLESTROI TEL. INST., XXII, T75072			4
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071 KOPERCKIJ, V. V. 75071 BAVIN, V. F. 75071 BAVIN, V. F. 75071 ER AND A HULL IN MODRING REGIME. 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 THIS IS A DETAILED ARTICLE, COVFRING BOTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 IT IS CONCLULED THAT THE USUAL ASSUMPTION WF 75071 ICH REPLACES THE ACTION OF THE PROPELLEP SCREW 75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071 HE PROPELLER. HENCE, THE SAME EQUATIONS MAY B 75071 YER, IF THE PROPELLER IS HEPRESENTED BY A UNIT 75071 SINK. TRANSLATION OPTIONAL. 75071 PROPULSION SYSTEMS 75071 PROPULSION SYSTEMS 75071 PROPULSION SYSTEMS 75071 PROPULSION SYSTEMS 75071 PROPULSION SYSTEMS, SHIPS 75071 PROPULSION SYSTEMS, SHIPS 75072 KCPEECKIJ, V. V. 75072 ON A TERM IN THE THEORY OF SCREW PROPELLERS. 75072			
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071 75071 ROPERCKIJ, V, V. 75071 BAVIN, V. F. 75071  A STUDY ON THE INTERACTION BYTWEFN A PROPELL 75071  ER AND A HULL IN MOORING REGIME. = 75071  TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071  I, 1958, P. 11-19 75071  THES IS A DETAILED ARTICLE, COVFRING ROTH THE 75071  THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071  IT IS CONCLUED THAT THE USUAL ASSUMPTION WF 75071  ICH REPLACES THE ACTION OF THE PROPELLEP SCREW 75071  ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071  RESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071  HE PROPELLER. HENCE, THE SAME EQUATIONS MAY B 75071  E USED FOR BOTH CASES. THIS IS NOT TRUE, HOWE 75071  YER, IF THE PROPELLER IS REPRESENTED BY A UNIT 75071  SINK. TRANSLATION OPTIONAL. 75071  PROPELLERS, SHIPS 75071  PROPELLERS, SHIPS 75071  PROPULSION SYSTEMS 75071  PROPULSION SYSTEMS 75071  PROPULSION SYSTEMS 75071  PROPULSION SYSTEMS 75071  PROPECKIJ, V. V. 75072  CON A TERM IN THE THEORY OF SCREW PROPELLERS. 75072			2
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071 T5071 T6071 T6			
SHIPS, PROPULSION SYSTEMS, SHIPS 75070 PROPULSION SYSTEMS, SHIPS 75071 75071 ROPERCKIJ, V. V.  BAVIN, V. F. A STUDY ON THE INTERACTION BETWEEN A PROPELL 75071 ER AND A HULL IN MOORING REGIME. = 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 THIS IS A DETAILED ARTICLE, COVFRING BOTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 IT IS CONCLULED THAT THE USUAL ASSUMPTION WF 75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 HE PROPELLER. HENCE, THE SAME EQUATIONS MAY B 75071 E USED FOR BOTH CASES. THIS IS NOT TRUE, HOWE 75071 SINK. TRANSLATION OPTIONAL. 75071 SINK. TRANSLATION OPTIONAL. 75071 PROPELLERS, SHIPS 75071 PROPULSION SYSTEMS 75071 PROPULSION SYSTEMS 75071 PROPULSION SYSTEMS, SHIPS 75071 75072		—·	
SHIPS, PROPULSION SYSTEMS, SHIPS 75070 775071 775071 775071 775071 775071 775071 775071 775071 775071 775071 775071 775071 775071 775071 775071 775071 775071 775071 775071 1, A STUDY ON THE INTERACTION RETWEEN A PROPELL 775071 1, 1958, P. 11-19 775071 1, 1958, P. 11-19 775071 1, 1958, P. 11-19 775071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 775071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 775071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 775071 THE REPLACES THE ACTION OF THE PROPELLER SCREW 775071 TO REPLACES THE ACTION OF THE PROPELLER SCREW 775071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 775071 THE PROPELLER. HENCE, THE SAME EQUATIONS MAY B 775071 THE PROPELLER. HENCE, THE SAME EQUATIONS MAY B 775071 THE PROPELLER IS REPRESENTED BY A UNIT 775071 SINK. TRANSLATION OPTIONAL. 775071 PROPELLERS, SHIPS 775071 PROPULSION SYSTEMS, SHIPS 775071			
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071 TOTAL 75071 KOPERCKLJ, V. V. 75071 BAVIN, V. F. 75071 A STUDY ON THE INTERACTION RETWOEN A PROPELL 75071 ER AND A HULL IN MOORING REGIME.= 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 THIS IS A DETAILED ARTICLE, COVERING ROTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 IT IS CONCLULED THAT THE USUAL ASSUMPTION WF 75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 HE PROPELLER. HENCE, THE SAME EQUATIONS MAY B 75071 VER, IF THE PROPELLER IS HEPRESENTED BY A UNIT 75071 SINK. TRANSLATION OPTIONAL. 75071 SHIP PROPELLES, SHIPS 75071 SHIP PROPULSION SYSTEMS 75071			7
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75071 75071 KOPEFCKIJ, V. V. 75071 BAVIN, V. F. 75071 BAVIN, V. F. 75071 ER AND A HULL IN MOORING REGIME. = 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 THIS IS A DETAILED ARTICLE, COVFRING BOTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 IT IS CONCLUDED THAT THE USUAL ASSUMPTION WF 75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 HE PROPELLER. HENCE, THE SAME EQUATIONS MAY B 75071 VER, IF THE PROPELLER IS REPRESENTED BY A UNIT 75071 SINK. TRANSLATION OPTIONAL. 75071 SINK. TRANSLATION OPTIONAL. 75071 PROPELLERS, SHIPS 75071			
SHIPS, PROPULSION SYSTEMS, SHIPS 75070 75071 75071 75071 75071 ROPERCKIJ, V. V.  BAVIN, V. P. A STUDY ON THE INTERACTION BETWEEN A PROPELL FRAND A HULL IN MOORING REGIME. = 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 THIS IS A DETAILED ARTICLE, COVERING BOTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 IT IS CONCLULED THAT THE USUAL ASSUMPTION WF 75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 HE PROPELLER. HENCE, THE SAME EQUATIONS MAY B 75071 VER, IF THE PROPELLER IS REPRESENTED BY A UNIT 75071 SINK. TRANSLATION OPTIONAL. 75071 SINK. TRANSLATION OPTIONAL. 75071 SHIP PROPELLE S			-
SHIPS, PROPULSION SYSTEMS, SHIPS 75070 75071 75071 75071 75071 ROPERCKIJ, V. V.  BAVIN, V. F.  A STUDY ON THE INTERACTION BETWEEN A PROPELL 75071 ER AND A HULL IN MOORING REGIME. = 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 THIS IS A DETAILED ARTICLE, COVERING BOTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. IT IS CONCLULED THAT THE USUAL ASSUMPTION WF 1CH REPLACES THE ACTION OF THE PROPELLER SCREW 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071  ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071  ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071  FOR THE PROPELLER IS REPRESENTED BY A UNIT 75071			-
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071 KOPEFCKIJ, V. V. 75071 BAVIN, V. F. 75071  A STUDY ON THE INTERACTION BETWEEN A PROPELL 75071 ER AND A HULL IN MOORING REGIME. = 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 75071 THIS IS A DETAILED ARTICLE, COVERING BOTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 IT IS CONCLUDED THAT THE USUAL ASSUMPTION WF 75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 HE PROPELLER. HENCE, THE SAME EQUATIONS MAY B 75071 E USED FOR BOTH CASES. THIS IS NOT TRUE, HOWE 75071	SINK. TRANSLATION OPTIONAL.		ľ
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071 KOPEFCKIJ, V. V. 75071 BAVIN, V. F. 75071  A STUDY ON THE INTERACTION BETWEEN A PROPELL 75071 ER AND A HULL IN MOORING REGIME. = 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 75071 THIS IS A DETAILED ARTICLE, COVERING BOTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 IT IS CONCLUDED THAT THE USUAL ASSUMPTION WF 75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071 BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071 ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071 HE PROPELLER. HENCE, THE SAME EQUATIONS MAY B 75071 E USED FOR BOTH CASES. THIS IS NOT TRUE, HOWE 75071	VER, IF THE PROPELLER IS REPRESENTED BY A UNIT		
SHIPS, PROPULSION SYSTEMS 75070  PROPULSION SYSTEMS, SHIPS 75071  TOTAL 75071  KOPERCKIJ, V. V. 75071  BAVIN, V. F. 75071  A STUDY ON THE INTERACTION BETWEEN A PROPELL 75071  ER AND A HULL IN MOORING REGIME. = 75071  TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071  I, 1958, P. 11-19 75071  THIS IS A DETAILED ARTICLE, COVERING BOTH THE 75071  THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071  THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071  IT IS CONCLULED THAT THE USUAL ASSUMPTION WF 75071  ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071  BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R 75071  ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T 75071	E USED FOR BOTH CASES. THIS IS NOT TRUE, HOWE		¢
SHIPS, PROPULSION SYSTEMS, SHIPS  75070 75071  KOPEFCKIJ, V. V.  BAVIN, V. F.  A STUDY ON THE INTERACTION BETWEEN A PROPELL  FRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI  TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI  75071  THIS IS A DETAILED ARTICLE, COVERING BOTH THE THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS.  IT IS CONCLULED THAT THE USUAL ASSUMPTION WF  75071  ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071  BY A SYSTEM OF DISTRIBUTED SINKS GIVES GOOD R	HE PROPELLER. HENCE, THE SAME EQUATIONS MAY B		
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071 KOPEFCKIJ, V. V. 75071 BAVIN, V. F. 75071  A STUDY ON THE INTERACTION BETWEEN A PROPELL 75071 ER AND A HULL IN MOORING REGIME.= 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 75071 THIS IS A DETAILED ARTICLE, COVERING BOTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 IT IS CONCLUDED THAT THE USUAL ASSUMPTION WF 75071 ICH REPLACES THE ACTION OF THE PROPELLER SCREW 75071	ESULTS BOTH FOR LIGHT AND FOR HEAVY LOADS OF T		
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071 KOPEECKIJ, V. V. 75071 BAVIN, V. P. 75071 A STUDY ON THE INTERACTION BETWEEN A PROPELL 75071 ER AND A HULL IN MOORING REGIME.= 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 75071 THIS IS A DETAILED ARTICLE, COVERING BOTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071 IT IS CONCLULED THAT THE USUAL ASSUMPTION WF 75071			
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071 KOPEECKIJ, V. V. 75071 BAVIN, V. F. 75071 A STUDY ON THE INTERACTION BETWEEN A PROPELI 75071 ER AND A HULL IN MOORING REGIME. 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 75071 THIS IS A DETAILED ARTICLE, COVERING BOTH THE 75071 THEORETICAL ANALYSIS AND EXPERIMENTAL RESULTS. 75071	ICH REPLACES THE ACTION OF THE PROPELLER SCREW		
SHIPS, PROPULSION SYSTEMS PROPULSION SYSTEMS, SHIPS 75070 75071 KOPEECKIJ, V. V. BAVIN, V. F. A STUDY ON THE INTERACTION BETWEEN A PROPELI ER AND A HULL IN MOORING REGIME.= 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 I, 1958, P. 11-19 75071 THIS IS A DETAILED ARTICLE, COVERING BOTH THE			c
SHIPS, PROPULSION SYSTEMS PROPULSION SYSTEMS, SHIPS 75070 75071 KOPEECKIJ, V. V. BAVIN, V. F. A STUDY ON THE INTERACTION RETWEEN A PROPELI ER AND A HULL IN MOORING REGIME.= TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071 1, 1958, P. 11-19 75071			
SHIPS, PROPULSION SYSTEMS PROPULSION SYSTEMS, SHIPS 75070 75071 KOPECKIJ, V. V. BAVIN, V. F. A STUDY ON THE INTERACTION BETWEEN A PROPELL 75071 ER AND A HULL IN MOORING REGIME. = 75071 TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI 75071			
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071 KOPEECKIJ, V. V. 75071 BAVIN, V. F. 75071 A STUDY ON THE INTERACTION BETWEEN A PROPELI 75071 ER AND A HULL IN MOORING REGIME.= 75071	TRUDY LENINGRAD. KORABLESTROIT. INSTITUTA, XXI		
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071 KOPECKIJ, V. V. 75071 BAVIN, V. F. 75071 A STUDY ON THE INTERACTION BETWEEN A PROPELL 75071			•
SHIPS, PROPULSION SYSTEMS       75070         PROPULSION SYSTEMS, SHIPS       75070         75071       75071         KOPEECKIJ, V. V.       75071         BAVIN, V. F.       75071	A STUDY ON THE INTERACTION RETWEEN A PROPELL		
SHIPS, PROPULSION SYSTEMS       75070         PROPULSION SYSTEMS, SHIPS       75070         75071       75071         KOPEECKIJ, V. V.       75071			•
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070 75071			
SHIPS, PROPULSION SYSTEMS 75070 PROPULSION SYSTEMS, SHIPS 75070			(
SHIPS, PROPULSION SYSTEMS 75070			
75076	SHIPS, PROPULSION SYSTEMS		•
PROPELLER FLACES 75070	BLADES, PROPELLER		

ا ا

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		-
HP TUG. EXTENSIVE DISCUSSION IS ENCLOSED.	<b>75073</b>	513
PROPULSION SYSTEMS PROPULSION SYSTEMS, SHIPS	75073 75073	701
75074	75073 75074	702 011
AMTSBERG, N.	75074	101
AN INVESTIGATION OF THE INTERACTION BETWEEN	75074	201
THE PROPELLER AND A SHIP ON BODIES OF REVOLUTI	75074	202
ON.=	75074	20.3
JAHABUCH DER SCHIFFLAUTECHN. GESELLSCHAFT, 54,	75074	251
1960 P. 117-152	75074	252
THIS IS AN EXTENSIVE AND DETAILED ARTICLE WHIC	75074	501
H INCLUDES BOTH THEORETICAL AND EXPERIMENTAL R ESULTS ON THE TITLE TOPIC. IT REPRESENTS A SU	75074 7507#	<u>502</u>
RVEY OF RESULTS OF A PROLONGED INVESTIGATION B	75074	503 504
Y SEVERAL INVESTIGATORS ASSOCIATED WITH THE AU	75074 75074	504 505
THOR. EXTENSIVE DISCUSSION IS ENCLOSED.	75074	506
SHIP PROPELLERS	7507	701
PROPELLERS, SHIPS	75074	702
SHIP PROPULSION SYSTEMS	75074	703
PROPULSION SYSTEMS, SHIPS	75074	704
75075	75075	011
GRIM, O.	75075	101
ELASTIC SUPPORT OF THE PROPELLER SHAFT.=	75075	201
JAHRBUCH DER SCHIFFBAUTECHN. GESELLSCHAFT, 54, 1960, P. 106-116	<u>75075</u> 75075	251 252
THIS IS A SHORT DESCRIPTION OF SEVERAL SHIPS W	75075	501
HERE THE PROPELLER SHAFT IS SUPPORTED ON ELAST	75075	502
IC FOUNDATIONS SO THAT THE VIBRATIONS ASSOCIAT	75075	503
ED WITH THE WORK OF THE PROPELLER ARE REDUCED	75075	504
BEFORE BEING TRANSMITTED INTO THE MAIN SHIP ST	75075	505
RUCTURE. A BRIEF REVIEW OF THE SUBJECT IS GIV	75075	506
EN AND AN EXTENSIVE DISCUSSION ENCLOSED.	75075	507
SHIP PROPELLERS	75075	701
PROPELLERS, SHIPS SHIP PROPULSION SYSTEMS	<u>75075</u> 75075	<u>702</u> 703
PROPULSION SYSTEMS, SHIPS	75075 75075	704
75076	75076	011
MICHEL, F.	75076	101
SHIP STEAM TURBINES AND SHIP PROPULSION GEAR	75076	201
S.=	75076	202
JAHRBUCH DER SCHIFFBAUTECHN. GESELLSCHAFT, 54,	75076	251
1960, P. 90-105	75076	252
THIS IS A DESCRIPTIVE ARTICLE ON THE RECENT DE	75076	501
VELOPMENT OF STEAM TURBINES AND ON THE ASSOCIA	75076 75076	502
TED TRANSMISSION SYSTEMS FOR SHIPS IN GERMANY.	75076 75076	503 504
ATTENTION IS ALSO PAID TO THE INPLUENCE OF S URFACE QUALITY OF THE GEARS ON THE POSSIBILITY	75076	505
OF FAILURE. DISCUSSION IS ENCLOSED.	75076	506
PROPULSION, STEAM	75076	701
STEAM PROPULSION	75076	702
SHIPS, PROPULSION SYSTEMS	7507€	703
PROPULSION SYSTEMS, SHIPS	7507 <del>6</del>	704
75077	75077	011
VOHRER, E.	75077	101
THE NEWEST DEVELOPMENT OF LARGE SHIP DIESEL	75077	201
ENGINES.=	75077	207
JAHRBUCH DER SCHIFFEAUTECHN. GESELLSCHAFT, 54,	75077	251
1960 P. 67-89 THIS IS AN EXTENSIVE REVIEW OF LARGE SHIP ENGI	75077 75077	257 501

NES, MAINLY OF EUROPEAN ORIGIN. THE CAPACITY	75077	502
RANGES UP TO 20,000 HP. MAIN PARAMETERS ARE T	75077	503
ABULATED AND MANY SCHEMATIC PICTURES ARE SHOWN	75077	504
DISCUSSION IS ENCLOSED.	750 <u>77</u>	. 505
PROPULSION, DIESEL-ELECTRIC	75077	701
DIESEL-ELECTRIC PROPULSION	75077	702
SHIPS, PROPULSION SYSTEMS	75077	703
PROPULSION SYSTEMS, SHIPS	75077	704
75078	75078	011
GUTSCHE, F.	75078	101
NOISE AND TONE GENERATION ON SHIP SCREWS.=	75078	201
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CONSIDERED AND LINKED TO NOISE GENERATION. IN	75078	505
PLUENCE OF VARIOUS FACTORS ON THE PHENOMENON I	75078	506
S CONSIDERED, LIKE CAVITATION, ERRORS AND YOLE	75078	507
RANCES IN THE SHAPE OF BLADES AND OTHERS.	75078	508
PROPELLERS	75078	701
SHIPS, PROPELLERS	750.78	702
PROPELLERS, SHIPS	75078	703

Sept. Sept.

## Appendix V

## DOCUMENTATION

This Appendix contains bibliographical data, enactated comments and key words of all references which were included in this Library Search. References are listed in numerical order within each subject category, the latter are described in Appendix II (p.7).

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Library search for literature in the field of icehreaker design and construction was made. The purpose of this search was to collect, review and make documentation of Russian and German literature, published between 1956 and 1966, which was pertinent to the main subject.

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Special reference was given to structural design, propulsion and to materials and processes used in construction as well as to physical properties of ice, to icebreaking theory and methods and to problems related to the interaction between the icebreaker and ice. Other pertinent areas, including fracture, fatigue and corrosion resistance were also included.

This report describes the main features of the work, its extent, sources and results. It contains technical information on the documentation and on copyright clearance. Bibliographical data, abstracts and key words of all references included in this search are listed in numerical order within each of ten subject categories.

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